# CONSTRUCTION NEWS

## PROPOSALS

**For proposals Advertised see the pages immediately following the "Construction News" Section.**

### WATERWORKS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Apr. 2 | West Chester, Pa. | Mar. 15 |
| Apr. 4 | Wheeling, W. Va. | Mar. 8 |
| Apr. 4 | Fayetteville, Tenn. | Mar. 22 |
| Apr. 5 | Fayetteville, N. C. | Mar. 15 |
| Apr. 6 | Mt. Greenwood, Ill. Adv. Mar. 29. | Mar. 29 |
| Apr. 9 | Buffalo, N. Y. | Mar. 29 |
| Apr. 10 | Toronto, O. | Mar. 15 |
| Apr. 10 | Franklin, Tenn. | Mar. 29 |
| Apr. 11 | Franklin, Tenn. | Mar. 29 |
| Apr. 12 | Astoria, Ill. | Mar. 15 |
| Apr. 12 | Poughkeepsie, N. Y. Adv. Mar. 29. | Mar. 29 |
| Apr. 16 | Totowa (Paterson P. O.), N. J. Adv. Mar. 29. | Mar. 29 |
| Apr. 18 | Richmond, Va. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 26 | New Orleans, La. Adv. Mar. 8 to 29. | Mar. 8 |

### SEWERS

| | | |
|---|---|---|
| Apr. 2 | Glen Rock (Ridgewood P. O.), N. J. | Mar. 15 |
| Apr. 2 | Yuba City, Calif. | Mar. 22 |
| Apr. 3 | New York, N. Y. | Mar. 29 |
| Apr. 3 | Youngstown, O. | Mar. 22 |
| Apr. 3 | St. George, N. Y. | Mar. 29 |
| Apr. 4 | Brooklyn, N. Y. | Mar. 29 |
| Apr. 6 | Little Falls, N. Y. | Mar. 29 |
| Apr. 6 | Lyndonville, N. Y. Adv. Mar. 15 to 29. | Mar. 15 |
| Apr. 6 | Old Orchard, Me. | Mar. 29 |
| Apr. 7 | Pottstown, Pa. | Mar. 15 |
| Apr. 9 | Merced, Calif. | Mar. 29 |
| Apr. 9 | Nelson, B. C. | Mar. 29 |
| Apr. 10 | Toronto, Ont. | Mar. 8 |
| Apr. 10 | Toledo, O. Adv. Mar. 15 to 29. | Mar. 15 |
| Apr. 10 | Hazard, Ky. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 11 | Dunlap, Ia. | Mar. 29 |
| Apr. 16 | Urbana, Ill. | Mar. 15 |
| Apr. 16 | Johnstown, Pa. Adv. Mar. 29. | Mar. 29 |
| Apr. 17 | Paterson, N. J. | Mar. 29 |
| Apr. 24 | Buffalo, N. Y. Adv. Mar. 29. | Mar. 29 |

### BRIDGES

| | | |
|---|---|---|
| Apr. 2 | Gurnee, Ill. | Mar. 22 |
| Apr. 3 | Galesburg, Mich. | Mar. 22 |
| Apr. 3 | North Carolina | Mar. 15 |
| Apr. 3 | Georgia | Mar. 29 |
| Apr. 3 | Primghar, Ia. | Mar. 29 |
| Apr. 4 | Matawan, N. J. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 4 | Painesville, O. | Mar. 22 |
| Apr. 6 | Fresno, Calif. | Mar. 15 |
| Apr. 10 | Fonda, N. Y. | Mar. 15 |
| Apr. 10 | Quay, Fla. | Mar. 29 |
| Apr. 12 | Mermentau, La. | Mar. 29 |
| Apr. 12 | Louisiana | Mar. 22 |
| Apr. 13 | Illinois | Mar. 29 |
| Apr. 14 | Eden, N. Y. | Mar. 29 |
| Apr. 16 | Johnstown, Pa. Adv. Mar. 29. | Mar. 29 |
| Sept. 1 | Sydney, New South Wales, Australia | Aug. 3 |

### DAMS

| | | |
|---|---|---|
| Apr. 3 | Newburgh, N. Y. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 12 | Oroville, Calif. | Mar. 22 |

### EXCAVATION, DRAINAGE, IRRIGATION

| | | |
|---|---|---|
| Apr. 2 | Webster City, Ia. | Mar. 15 |
| Apr. 2 | Carroll, Ia. | Mar. 29 |
| Apr. 3 | Sioux City, Ia. | Mar. 22 |
| Apr. 3 | Penticton, B. C. | Mar. 29 |
| Apr. 6 | Nevada, Ia. | Mar. 29 |
| Apr. 9 | Lamar, Colo. | Mar. 22 |
| Apr. 9 | Vancouver, B. C. | Mar. 29 |
| Apr. 14 | Savannah, Tenn. | Mar. 22 |

### STREETS AND ROADS

| | | |
|---|---|---|
| Apr. 2 | Stoneboro, Pa. | Mar. 15 |
| Apr. 2 | Hastings, Minn. | Mar. 15 |
| Apr. 2 | Hastings, Pa. | Mar. 15 |
| Apr. 2 | Lucerne, Minn. | Mar. 15 |
| Apr. 2 | White Plains, N. Y. | Mar. 22 |
| Apr. 2 | Salem, Ind. | Mar. 22 |
| Apr. 2 | Elbow Lake, Minn. | Mar. 22 |
| Apr. 2 | Tavares, Fla. | Mar. 29 |
| Apr. 2 | Morgantown, W. Va. | Mar. 29 |
| Apr. 2 | Harlan, Ky. | Mar. 29 |
| Apr. 2 | Martins Ferry, O. | Mar. 29 |
| Apr. 2 | Cumberland, Md. | Mar. 29 |
| Apr. 2 | Long Island City, N. Y. | Mar. 29 |
| Apr. 3 | Amsterdam, N. Y. | Feb. 1 |
| Apr. 3 | Rowland, N. C. | Mar. 15 |
| Apr. 3 | North Carolina Adv. Mar. 22 and 29. | Mar. 15 |
| Apr. 3 | Pennsylvania Adv. Mar. 15 to 29. | Mar. 15 |
| Apr. 3 | Geneva, N. Y. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 3 | Maryland | Mar. 22 |
| Apr. 3 | Michigan | Mar. 22 |
| Apr. 3 | Columbus, O. | Mar. 29 |
| Apr. 3 | New York, N. Y. | Mar. 29 |
| Apr. 3 | Wilkes-Barre, Pa. | Mar. 29 |
| Apr. 3 | Georgia | Mar. 29 |
| Apr. 3 | Mankato, Minn. | Mar. 29 |
| Apr. 3 | Connecticut Adv. Mar. 29. | Mar. 29 |
| Apr. 3 | Denver, Colo. | Mar. 29 |
| Apr. 4 | Michigan | Mar. 22 |
| Apr. 4 | Holton, Kan. | Mar. 8 |
| Apr. 4 | Kentucky | Mar. 15 |
| Apr. 4 | Maplewood (St. Louis P. O.), Mo. | Mar. 22 |
| Apr. 4 | South Dakota | Mar. 15 |
| Apr. 4 | Florida | Mar. 22 |
| Apr. 4 | Wisconsin | Mar. 29 |
| Apr. 4 | San Francisco Calif. | Mar. 29 |
| Apr. 4 | Bad Axe, Mich. | Mar. 29 |
| Apr. 4 | Brooklyn, N. Y. | Mar. 29 |
| Apr. 5 | Topeka, Kan. | Mar. 8 |
| Apr. 5 | South Dakota | Mar. 15 |
| Apr. 5 | Burlington, Vt. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 5 | Virginia | Mar. 22 |
| Apr. 5 | Michigan | Mar. 22 |
| Apr. 5 | Newark, N. J. | Mar. 29 |
| Apr. 5 | Dyersburg, Tenn. | Mar. 29 |
| Apr. 5 | Corsicana, Tex. | Mar. 29 |
| Apr. 5 | Denver, Colo. | Mar. 29 |
| Apr. 5 | Toronto, Ont. | Mar. 29 |
| Apr. 6 | Michigan | Mar. 22 |
| Apr. 6 | Holton, Kan. | Mar. 15 |
| Apr. 6 | South Dakota | Mar. 15 |
| Apr. 6 | Rhode Island Adv. Mar. 29. | Mar. 29 |
| Apr. 6 | North Dakota | Mar. 29 |
| Apr. 6 | Troy, N. C. | Mar. 29 |
| Apr. 7 | South Dakota | Mar. 15 |
| Apr. 7 | Michigan | Mar. 22 |
| Apr. 7 | Denver, Colo. | Mar. 29 |
| Apr. 9 | Cleveland, O. | Mar. 29 |
| Apr. 9 | Mineola, N. Y. Adv. Mar. 29. | Mar. 29 |
| Apr. 9 | Michigan | Mar. 29 |
| Apr. 9 | San Diego, Calif. | Mar. 29 |
| Apr. 9 | Council Bluffs, Ia. | Mar. 29 |
| Apr. 9 | Reno, Nev. | Mar. 29 |
| Apr. 10 | New Castle, Pa. | Mar. 22 |
| Apr. 10 | Washington | Mar. 15 |
| Apr. 10 | Louisiana | Mar. 22 |
| Apr. 10 | Maryland Adv. Mar. 29. | Mar. 29 |
| Apr. 10 | Buffalo, Minn. | Mar. 29 |
| Apr. 10 | Moorhead, Minn. | Mar. 29 |
| Apr. 10 | Easley, S. C. Adv. Mar. 29. | Mar. 29 |
| Apr. 10 | Michigan | Mar. 29 |
| Apr. 10 | Pierre, S. D. | Mar. 29 |
| Apr. 10 | Ripon, Wis. | Mar. 29 |
| Apr. 10 | Fond du Lac, Wis. | Mar. 29 |
| Apr. 10 | Indiana | Mar. 29 |
| Apr. 11 | Freehold, N. J. Adv. Mar. 29. | Mar. 29 |
| Apr. 11 | Delaware Adv. Mar. 29. | Mar. 29 |
| Apr. 11 | Dunlap, Ia. | Mar. 29 |
| Apr. 12 | Jacksonville, Fla. | Mar. 29 |
| Apr. 13 | Illinois | Mar. 29 |
| Apr. 14 | Bessemer, Mich. | Mar. 22 |
| Apr. 14 | St. Johns, Mich. | Mar. 29 |
| Apr. 16 | Canonsburg, Pa. | Mar. 22 |
| Apr. 16 | Kingston (Wilkes-Barre P. O.), Pa. | Mar. 29 |
| Apr. 16 | Shenandoah, Pa. Adv. Mar. 29. | Mar. 29 |
| Apr. 16 | Mitchell, S. D. | Mar. 29 |
| Apr. 16 | Glendive, Mont. | Mar. 29 |
| Apr. 17 | Alabama | Mar. 22 |
| Apr. 17 | St. Louis, Mo. | Mar. 29 |
| Apr. 20 | Sioux Falls, S. D. | Mar. 29 |

### INDUSTRIAL WORK

| | | |
|---|---|---|
| Apr. 7 | Galeton, Pa. | Mar. 29 |
| Apr. 10 | Crugar, Miss. | Mar. 29 |
| Apr. 18 | Muscatine, Ia. Adv. Mar. 29. | Mar. 29 |
| Mar. 31 | Medina, O. | Mar. 29 |
| Apr. 1 | Madison, Wis. | Mar. 29 |
| Apr. 2 | Syracuse, N. Y. | Mar. 1 |
| Apr. 2 | Morris Plains, N. J. | Mar. 15 |
| Apr. 2 | Memphis, Tenn. | Mar. 22 |
| Apr. 2 | Woodlawn, Pa. | Mar. 29 |
| Apr. 2 | Springfield, Mass. | Mar. 22 |
| Apr. 2 | Pittsburgh, Pa. | Mar. 29 |
| Apr. 2 | West Pullman, Ill. | Mar. 29 |
| Apr. 3 | New York, N. Y. | Mar. 29 |
| Apr. 3 | Battle Creek, Mich. | Mar. 29 |
| Apr. 3 | Duquesne, Pa. | Mar. 29 |
| Apr. 4 | Marysville, O. | Mar. 15 |
| Apr. 4 | New Rochelle, N. Y. | Mar. 15 |
| Apr. 4 | Palmyra, N. Y. | Mar. 22 |
| Apr. 4 | Baltimore, Md. | Mar. 29 |
| Apr. 4 | Swannanoa, N. C. | Mar. 29 |
| Apr. 4 | Barnesboro, Pa. | Mar. 29 |
| Apr. 4 | Greenville, N. C. | Mar. 29 |
| Apr. 5 | Oxford, O. | Mar. 22 |
| Apr. 5 | Erie, Pa. | Mar. 29 |
| Apr. 5 | University (St. Louis P. O.), Mo. | Mar. 29 |
| Apr. 6 | Cleveland, O. | Mar. 29 |
| Apr. 7 | Hartford, Conn. | Mar. 29 |
| Apr. 7 | Vancouver, Wash. | Mar. 22 |
| Apr. 7 | Kalamazoo, Mich. | Mar. 22 |
| Apr. 10 | Springfield, Mass. | Mar. 22 |
| Apr. 10 | Cedar Falls, Ia. | Mar. 22 |
| Apr. 10 | Columbus, O. | Mar. 15 |
| Apr. 10 | St. Louis, Mo. | Mar. 29 |
| Apr. 10 | Tucson, Ariz. | Mar. 29 |
| Apr. 10 | Hartford, Conn. | Mar. 29 |
| Apr. 12 | Savannah, Ill. | Mar. 22 |
| Apr. 12 | Hartford, Conn. | Mar. 29 |
| Apr. 18 | Marion, N. Y. | Mar. 29 |
| Apr. 19 | Seward, Neb. | Mar. 29 |
| Apr. 20 | New Haven, Conn. | Mar. 29 |
| Apr. 31 | Capa, S. D. | Mar. 8 |
| May 1 | Mason City, Ia. | Mar. 22 |

### FEDERAL GOVERNMENT WORK

| | | |
|---|---|---|
| Apr. 2 | Quarters — Hot Springs, Ark. | Mar. 22 |
| Apr. 2 | Levee Work — Greenville, Miss. | Mar. 29 |
| Apr. 3 | Dredging, etc. — Jacksonville, Fla. Adv. Mar. 8 to 29. | Mar. 8 |
| Apr. 3 | Rope—Memphis, Tenn. Adv. Mar. 15 to 29. | Mar. 15 |
| Apr. 3 | Dwelling, etc. — Shinnecock, N. Y. | Mar. 15 |
| Apr. 3 | Road—California | Mar. 22 |
| Apr. 3 | Head-Gate Track, etc.—Florence, Ala. Adv. Mar. 22 and 29. | Mar. 29 |
| Apr. 5 | Piling—Louisville, Ky. Adv. Mar. 8 to 29. | Mar. 8 |
| Apr. 6 | Dredge Tender—San Francisco, Calif. | Mar. 15 |
| Apr. 7 | Metal—Vicksburg, Miss. | Mar. 15 |
| Apr. 9 | Dredging — New Orleans, La. Adv. Mar. 15 to 29. | Mar. 15 |
| Apr. 9 | Cement—Louisville, Ky. | Mar. 15 |
| Apr. 10 | Lock—Newburg, Ind. | Mar. 1 |
| Apr. 11 | Removing Fenders — Norfolk, Va. | Mar. 15 |
| Apr. 12 | Machinery, etc. — Honolulu, H. I. | Mar. 1 |
| Apr. 12 | Steel Hull—Rock Island, Ill. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 12 | Wire—Fremont, Calif. | Mar. 23 |
| Apr. 13 | Lock Gates—Chattanooga, Tenn. | Mar. 29 |
| Apr. 16 | Tunnel, etc. — Mitchell, Neb. | Mar. 1 |
| Apr. 16 | Barges—Galveston, Tex. | Mar. 15 |
| Apr. 16 | Ice-Making and Refrigerating Plant—Chelsea, N. Y. | Mar. 22 |
| Apr. 17 | Disposal Plant, etc.—Toby-hanna, Pa. Adv. Mar. 29. | Mar. 29 |
| Apr. 18 | Monument — Plattsburg, N. Y. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 20 | Dredging Pump—Jacksonville, Fla. Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. 20 | Valves, etc.—Florence, Ala. Adv. Mar. 29. | Mar. 29 |
| Apr. 25 | Reconstructing Dike — Mare Island, Calif. | Mar. 22 |
| May 10 | Post Office — Cordova, Alaska | Jan. 25 |

### MISCELLANEOUS

| | | |
|---|---|---|
| Apr. 2 | Wharf—Norwalk, Conn. | Mar. 22 |
| Apr. 2 | Steel—Flushing, N. Y. | Mar. 22 |
| Apr 2 | Cement Tile — St. Paul, Minn. | Mar. 29 |

| Bids Close | | | See Eng. News-Record |
|---|---|---|---|
| Apr. | 3 | Bituminous Material — Albany, N. Y. ..... Adv. Mar. 22 and 29. | Mar. 22 |
| Apr. | 3 | Road Dredge, Scrapers, etc. —Onida, S. D. ..... | Mar. 22 |
| Apr. | 3 | Road Grader — Chaska, Minn. ..... | Mar. 22 |
| Apr. | 3 | Grain Elevator—Baltimore, Md. ..... | Mar. 22 |
| Apr. | 3 | Grain Elevator — Montreal, Que. ..... | Mar. 22 |
| Apr. | 3 | Dump Truck and Tractor — Erie, Pa. ..... | Mar. 29 |
| Apr. | 3 | Lumber, Piling, etc. — Primghar, Ia. ..... | Mar. 29 |
| Apr. | 3 | Culverts, Plows, etc. — Webster, S. D. ..... | Mar. 29 |
| Apr. | 4 | Riveted Pipe — Oroville, Calif. ..... | Mar. 29 |
| Apr. | 4 | Road Graders—Aberdeen, S. D. ..... | Mar. 29 |
| Apr. | 4 | Lumber—Brooklyn, N. Y. | Mar. 29 |
| Apr. | 5 | Road Material — Newton, N. J. ..... | Mar. 22 |
| Apr. | 5 | Wharf, Chain Walls, etc. — New Orleans, La. ..... | Mar. 22 |
| Apr. | 5 | Graders, etc. — Lakota, N. D. ..... | Mar. 29 |
| Apr. | 5 | Steam Shovel and Boiler—Key West, Fla. ..... | Mar. 29 |
| Apr. | 5 | Metals and Castings — New York, N. Y. ..... | Mar. 29 |
| Apr. | 6 | Tar—Cincinnati, O. ..... | Mar. 29 |
| Apr. | 6 | Road Machinery — Minnewaukon, N. D. ..... | Mar. 29 |
| Apr. | 6 | Bituminous Road Binder, etc. —Milwaukee, Wis. ..... | Mar. 29 |
| Apr. | 7 | Dump Truck—Sharon, Pa. | Mar. 29 |
| Apr. | 9 | Stadium—East Cleveland (Cleveland P. O.), O. | Mar. 15 |
| Apr. | 9 | Fire Alarm System—Wichita, Kan. ..... | Mar. 22 |
| Apr. | 10 | Electric Standards—St. Louis, Mo. ..... | Mar. 22 |
| Apr. | 10 | Culverts—Buffalo, Minn. | Mar. 29 |
| Apr. | 10 | Heating and Ventilating System—Allentown, Pa. ..... | Mar. 29 |
| Apr. | 10 | Pier—Buffalo, N. Y. | Mar. 29 |
| Apr. | 11 | Culverts—St. Cloud, Minn. | Mar. 29 |
| Apr. | 13 | Transmission and Telephone Lines—Seattle, Wash. .... | Mar. 22 |

**Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

### PROPOSED WORK

**Mass., Springfield**—Plans doubling capacity of slow sand filtration system. $60,000. Hazen & Whipple, 30 East 42nd St., New York City, consult engrs.

**N. Y., Champlain**—Plans water supply system. To exceed $25,000.

**N. Y., Liverpool**—Election soon to vote on $50,000 bonds water supply system.

**N. Y., Dolgeville**—Plans increasing water supply system and storage facilities. $50,000. C. N. Cramer, village pres.

**N. Y., Mohawk** — Mohawk Municipal Comn. plans to extend water system and increase storage capacity. To exceed $15,000.

**N. Y., Rensselaer**—Rensselaer Water Co. plans extending mains in Forbes Ave. and other streets. To exceed $15,000.

**N. Y., Webster**—Plans addition to water supply. $20,000.

**D. C., Wash.** — Congress appropriated $20,000 to purchase site for Fort Reno Reservoir.

**N. C., Mt. Gilead**—Had surveys made, 25,500 ft. 6-10 in. c.i. and 3,800 ft. 2 in. w.i. mains, filter plant, 2 pumping stations, supply lines, reservoir, clearwell, dam, pumping machinery and elevated tank. $84,324. H. Beebe, Spartanburg, S. C., consult. engr.

**N. C., Saluda**—Having plans and estimates prepared 1 mi. pipe line, 200,000 gal. reservoir and pumping equipment. H. Beebe, Spartanburg, S. C., consult. engr.

**S. C., Cowpens**—Had surveys made for c.i. mains, pump house, reservoir, elevated tank, pumping equipment and deep wells. $60,000. H. Beebe, Spartanburg, consult. engr.

**Florida**—See "Railways."

**Fla., Miami Beach**—Plans election to vote on $100,000 bonds for waterworks extensions, incl. 6 and 8 in. mains, etc. R. M. Davidson, Miami Beach, engr.

**Fla., Tampa**—Voted $1,272,278 bonds to purchase water works plant and extend same. R. D. Martin, City Hall, engr. Noted Jan. 4.

**O., Columbus**—See "Streets and Roads."

**Mich., Detroit**—Water Bd. having plans prepared 3,855 ft. 6 in. and 2,161 ft. 8 in. c.i. mains in Wisconsin, Kentucky, Phillips, Wheeler, Indiana and Ohio Aves. $20,000. T. A. Leisen, Waterworks Park, engr.

**Mich., Jackson** — Having preliminary plans prepared for waterworks extensions, incl. 3 m.g. storage reservoir, high pressure pumping station with boilers and equipment, high pressure mains, 6 drilled wells, 350 ft. deep, low pressure equipment includes 15 in. motor driven centrifugal pump. $400,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

**Wis., Appleton**—Plans 2 mi. mains in various streets. $25,000. O. F. Weissgerber, City Hall, engr.

**Ia., Dubuque**—Making plans waterworks improvements, incl. pumping station, equipment, etc. $325,000 bonds voted. Mead & Seastone, State Journal Bldg., Madison, Wis., engrs.

**N. D., Fargo**—Making plans enlarging sedimentation basin, etc., $25,000, 18 in. mains. $75,000. R. T. Jacobsen, city engr.

**S. D., Conde**—Plans waterworks system. $35,000.

**Mo., King City**—Apr. 17, to vote on $70,000 bonds water works system. A. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

**Mo., Lathrop**—Voted $60,000 bonds water improvements and $22,000 bonds for sewers. A. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs. Noted Feb. 22.

**Tex., Greenville** — Voted $65,000 bonds 6 mi. 6-8 in. pipe line, also $20,000 bonds for sewerage extensions. A. D. Duck, city engr.

**Idaho, Lewiston** — Plans prepared rebuilding and extending waterworks, incl. 4 m.g. storage capacity, filtration system, 2 reservoirs and replacing wood mains with c.i. pipe. $400,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Nov. 16.

**Calif., Mayfield**—Plans election to vote on $42,500 bonds for improvements and extensions to waterworks system.

**Calif., Strathmore** — Plans to vote on $27,000 bonds waterworks system.

**Ont., Cobalt**—Plans auxiliary pumping plant incl. gasoline engine and centrifugal pump. $20,000. A. W. Harrington, clk. Engineer not selected.

**Ont., Toronto**—Plans 14,000 ft. 6 in. c.i. mains in Rosedale Heights, Cleveland, Forman, Dawesville, and Lambert Aves., Forsyth, McCord, Le May, Martin and Whitewood Rds., Martin and Forsyth Crescents, $26,343. R. C. Harris, city engr.

**Ont., Windsor** — Essex Border Utilities Comn. having plans prepared filtration plant, slow sand or mechanical filters. $300,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs. Noted Oct. 12.

### BIDS DESIRED

**N. Y., Antwerp**—Village Bd. taking bids steel standpipe. $10,000. W. A. Kinney, village pres.

**N. Y., Buffalo**—Apr. 9, by Commissioner Pub. Wks., Municipal Bldg., 33,000 lb. c.i. and 12,000 lb. steel manhole frames and covers, etc. G. W. Andrews, Col. Ward Pumping Sta., engr.

**N. Y., Poughkeepsie** — Apr. 12, by Bd. Pub. Wks., Eastman Park Mansion, reconstructing pumping station. Hazen & Whipple, 30 East 42nd St., New York City, consult. engrs.; adv. this issue.

**N. Y., St. George**—Apr. 3, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Midland and Maple Aves., 2nd, 3rd, 4th, 5th, 6th, 7th, 8th and 9th Sts., here.

**N. J., Totowa** (Paterson P. O.)—Apr. 16, by Boro Council, 6 in. c.i. pipe, hydrants, gates and fittings. G. Ferguson, Court House, Paterson, boro engr.; adv. this issue.

**Tenn., Franklin**—Apr. 10, 8,280 lin.ft. Class A 6 in., (12 ft. lengths), bell and spigot c.i. pipe, 2,200 lin.ft. Class A 2 in. c.i. pipe and 2,200 lin.ft. 2 in. galvanized pipe. P. Marshall, mayor.

**Tenn., Franklin**—Apr. 11, by P. Marshall, mayor, taking up 5,372 ft. 4 in. pipe, haul and relay 6 in. pipe to replace same, 8,050 ft. 2-6 in. additional pipe.

**O., Columbus**—See "Streets and Roads."

**Ill., Mt. Greenwood**—Apr. 6, by Bd. Local Impvts., 37,236.6 ft. 6-12 in. c.i. pipe, etc. M. L. Cusack, pres.; adv. this issue.

**Que., Coaticook** — Coaticook Water Co. taking bids 1 mi. mains in Compton St., other mains to be replaced. P. E. Durocher, mgr.

### BIDS RECEIVED

**Wis., Wauwatosa**—A. V. Brigham, secy. Bd. Pub. Wks., deep well turbine or centrifugal pump, from Aurora Pump & Mfg. Co., Aurora, Ill., $5,976 and $6,681; Layne & Bowler Co., Chelsea Ave., Memphis, Tenn., $7,522. Noted March 8.

**O., Cleveland**—Cuyahoga Co., March 10, 7,840 ft. 6 and 8 in. c.i. mains in Impvt. 26, from Kassouf & Co., 3182 West 25th St., $22,160; J. B. Lynn, Euclid, $22,398.

**Que., Montreal**—Furnishing 6,000 tons 48 in. c.i. pipe, Class C, to Canada Iron Foundries Co. Ltd., Three Rivers, $52.50 per ton, total $31,500. Noted March 15.

### CONTRACTS AWARDED

**N. Y., Brooklyn** — Bd. Water Supply, Municipal Bldg., New York, Mar. 20, Narrow Siphon 2, portion of Catskill Aqueduct extending across New York Harbor from 86th St. and Shore Rd., Bay Ridge, here, to Vanderbilt Ave. and Bay St., Clifton, Staten Island, from Merritt-Chapman & Scott Corp., 17 Battery Pl., New York, $1,523,136, Frederick Snare Corp., 8 West 40th St., New York, $1,684,660; Park Slope and Ft. Hamilton conduits, portion of city conduits of Catskill Aqueduct, extending from Shaft 23 of city tunnel at Schermerhorn St. and 3rd Ave., etc., here, from T. A. Gillespie Co., 7 Dey St., New York, $2,338,805, Patrick McGovern, Inc., 50 East 42nd St., New York, $2,388,426; A. Paino, 32 Court St., $2,445,435. Noted Mar. 1 and Feb. 22.

**O., Cleveland**—For 1 story, 180 x 193 ft. pumping station, 67 ft. high, for Fairmount Pumping Sta., from Schirmer-O'Hara Co., 2031 Euclid Ave., $519,918; Camp Constr. Co., Newman-Stern Bldg., $559,000; P. Kirschner Co., 1104 Prospect Ave., $567,000. Noted Mar. 1.

**O., Delaware**—W. H. Duffy, dir. Pub. Serv., Columbus, two 200 hp. boilers, at Girls' Industrial Home, Concord, Delaware Co., near here, to Heine Safety Boiler Co., 1432 Union Trust Bldg., Cincinnati, $14,230; filtered water pump, to Factory Engineers & Sales Co., Commerce Bldg., Columbus, $2,119., Noted Mar. 1.

**Ill., Bellewood**—See "Sewers."

**Mo., St. Louis**—Bd. Pub. Serv., City Hall, to U. S. Cast Iron Pipe & Fdry. Co., 520 Security Bldg., 380 tons Class B 6 in., 50 tons Class C 8 in. and 660 tons Class C 12 in. c.i. pipe $51.60 per ton also 110 tons Class C 20 in. $50.60. Noted Mar. 22.

**Tex., Beaumont**—For 4-24 in. c.i. pipe, to U. S. Cast Iron Pipe Co., Amer. Trust Bldg., Birmingham, Ala., $52 per ton, total $50,000.

**Calif., Niles**—Spring Valley Water Co., 375 Sutter St., San Francisco, will build 12,000 ft. concrete flume, 5 x 6 ft. square, by day labor. G. A. Elliott, ch. engr. Private plans.

# Sewers

### PROPOSED WORK

**Mass., Springfield**—Plans pumping stations, dikes and new sewer lines in Lowell, Orchard and Washburn Sts., to remedy flood conditions. $200,000. Metcalk & Eddy, 14 Beach St., Boston, consult. engrs.

**Mass., Springfield**—Plans 1.25 mi. trunk line sewer in Eastern Ave. $85,000. R. S. Marsh, city engr.

**N. Y., Canton**—Plans additional storm water and sanitary sewers. $25,000-$30,000. W. A. McPhee, village pres.

**N. Y., Ogdensburg**—Common Council and Bd. Pub. Wks. plan addition storm water and sanitary sewers in 2nd Ward. To exceed $25,000. G. Tate, city engr.

**Pa., Dayton**—See "Streets and Roads."

**Pa., Elizabethtown**—Town voted $60,000 bonds to pay its share toward trunk sewers and sewage disposal plant at Masonic Homes. Total est. $145,000. F. H. Shaw, Breneman Bldg., Lancaster, engr.

**D. C., Wash.**—Dist. Comrs., 509 Dist. Bldg., plan sewers in various streets $150,000, also in suburbs $300,000.

**D. C., Wash.**—Dist. Comrs., 509 Dist. Bldg., plan Upper Potomac main interceptor, $20,000.

**N. C., Mt. Gilead**—Had plans prepared sewerage system, 3 septic tanks, 44,000 lin. ft. 6-15 in. vitr. clay pipe, etc. $69,000. H. Beebe, Spartanburg, S. C., consult. engr.

Sewers (Continued)

**S. C., Cowpens** — Had plans prepared 29,000 ft. 6-15 in. vitr. clay sewers, flush tanks, outfalls and septic tanks. $39,000. H. Beebe, Spartanburg, consult. engr.

**Fla., Miami Beach**—Apr. 9, to vote on $22,774 bonds for 18 in., $6,330 for 27 in., $42,472 for 8 in. and $24,775 for 24 in. concrete sewers. R. M. Davidson, Miami Beach, engr.

**Ky., Paducah**—Dept. Pub. Wks. plans lateral sewers. $450,000. H. A. Pulliam, comr. pub. wks. and ch. engr.

**O., Cleveland**—Cuyahoga Co. plans 17,613 ft. 18-30 in. vitr. clay sewer in Impvt. 9, Sect. A, Ridge Rd. To exceed $100,000. R. F. MacDowell, Court House, engr.

**O., Columbus**—See "Streets and Roads."

**O., Marion**—Making preliminary plans for storm drainage. $525,000. G. B. Gascoigne, Leader-News Bldg., Cleveland, engr.

**Wis., Marshfield**—Making plans sanitary sewerage system. $60,000. J. H. A. Brahtz, 409 Metropolitan Opera House Blk., St. Paul, Minn., engr.

**Mo., Lathrop**—See "Waterworks."

**Tex., Greenville**—See "Waterworks."

**Tex., Merkel**—Apr. 17, to vote on $60,000 bond issue for sanitary sewerage system. H. C. West, mayor.

**Wash., Hoquiam**—Plans 5 mi. vitr. sewers, Emerson Ave. Dist. $75,000. W. L. Lovejoy, Hoquiam, engr.

**Calif., Santa Clara**—To vote on $70,000 bonds outfall sewers.

**Ont., Hamilton**—Plans sanitary sewers in Cumberland Ave. $35,000. E. R. Gray, city engr.

### BIDS DESIRED

**Me., Old Orchard**—Apr. 6, by Bd. Selectmen, Town Hall, 5,645 ft. 8-12 in. sewer mains, submerged outlet of 3,000 ft. 12 in. mains, 6 septic tanks 35 ft. long, ejector station 12 x 22 x 25 ft. Baker & Wheeler, 36 State St., Albany, N. Y., engrs.

**N. Y., Brooklyn**—Apr. 4, by E. Riegelmann, boro pres., Boro Hall, sewers in Empire Blvd., 84th and Maple Sts., Schenectady, Highlawn, Troy and Lott Aves.

**N. Y., Buffalo**—Apr. 24, by Commissioner Pub. Wks., rein.-con. storm water drain; adv. this issue.

**N. Y., Little Falls**—Apr. 6, by Bd. Pub. Wks., sanitary sewers in Monroe and West Monroe Sts., et. al. $25,000. R. Feeter, city engr.

**N. Y., New York**—Apr. 3, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewer in Crosby Ave. between La Salle and Waterbury Aves., also in Waterbury Ave., etc.

**N. J., Paterson** — Apr. 17, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, local sewer connections in Montgomery St., sewage controlling apparatus in Mulberry St. connection chamber, here. J. R. Van Duyne, ch. engr.

**D. C., Wash.**—Dist. Comrs., 509 Dist. Bldg., receiving bids 2 main pipe sewers and receiving basin. $125,000.

**B. C., Nelson**—Apr. 9, by W. E. Wasson, city clk., 22,445 ft. 6-18 in. concrete or tile sewers in Fairview Dist. $56,000. Green Bros., Nelson, engrs.

**Pa., Johnstown**—Apr. 16, at office M. L. Masterton, supt. streets and pub. improvements, City Hall, sanitary sewers; adv. this issue.

**Pa., Kingston (Wilkes-Barre P. O.) Pa.**—See "Streets & Roads."

**Pa., Williamsport** — Taking bids and opens same about Apr. 10, 8,000 ft. 24 in. rein.-con. and tile storm and sanitary sewers in various streets, avenues, etc. L. Mussina, city engr.

**Ia., Dunlap**—Apr. 11 by M. Rawlings, clk., 13,000 lin.ft. 12-18 in. storm sewers, etc. $25,000. Henningson Eng. Co., National Bldg., Omaha, Neb., engrs. Noted Mar. 22.

**Calif., Merced**—Apr. 9, sanitary sewer, 18,600 lin.ft. 24 in. vitr., bell and cement tongue and groove cement or rein.-con. pipe; storm sewer 9,710 lin.ft. 12-36 in. pipe, etc. To exceed $50,000. J. C. McSwain, Merced, engr. Noted Jan. 11.

### BIDS RECEIVED

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, Mar. 21, sewers in (1) Ocean Ave. engrs. est. $39,925 (2) 41st St., engrs. est. $4,669 (3) Crown St., engrs. est. $3,695 (4) Rutherford Pl., engrs. est. $2,370 (5) Barrett St., engrs. est. $400 (6) Flushing Ave., engrs. est. $450 (7) 81st St., engrs. est. $350 (8) 86th St., engrs. est. $350 (9) 19th Ave., engrs. est. $350, from Necaro Co., Inc., 97 Court St., (1) 94.45% engineers estimate; C. F. Vacharius, 643 40th St., (1) 98%; M. Paino Co., 32 Court St., (1) 102.49% (2) 105% (3) 95% (6) 109% (7) 107% (9) 105%; Tozzi Bros. (2) 112%; B. Peconi & Sons (2) 115% (3) 104%; G. L. Schrade, 693 Flatbush Ave., (3) 97.39% (4) 95.74% (5) 107%; S. Ambrosio, 1016 60th St., (4) 92% (8) 115%; Manm... Constr. Co., (4) 96% (5) 104% (6) 128% (9) 106%; Roslyn Constr. Co., 915 New York Ave., (5) 97% (6) 97% (7) 97% (8) 97% (9) 97%; Tomasetti & Co., 1133 60th St., (7) 109.5% (8) 109.5%. Noted Mar. 15.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Mar. 20, sewers in (1) Winslow Pl. (2) Madison St. (3) Pulaski St. (4) Tiemann Ave. (5) Vandeventer Ave. (6) Grand St. (7) Rockaway Blvd., from Kennedy & Smith, Inc., 93 Amity St., Flushing, (1) $1,612 (3) Type A $32,497 (5) $2,389; Peace Bros., Inc., 57 North Laurence St., Flushing, (1) $1,842 (2) $2,180 (4) $1,176 (5) $2,891 (7) $1,242; J. Gallo, 203 Division St., Brooklyn, (1) $1,848 (2) $2,350 (3) Type B $29,377 (4) $1,155 (5) $3,398 (6) $5,882 (7) $1,226; Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, (2) $2,207 (3) Type A $30,641, Type B $31,595; Spinella & Muccini, 6102 18th Ave., Brooklyn, (3) Type A $29,240, Type B $28,800; E. J. Kelly, Jr., (4) $1,217 (6) $6,032; D. A. Gross, 895 Fulton St., Woodhaven (6) $5,639. Noted Mar. 15.

**N. J., Newark**—Passaic Valley Sewerage Comrs., 128 Market St., Mar. 20, Union Outlet Sewer Connection, from H. L. Harrison, Newark (street address not available) $35,600; O'Gara Constr. Co., 242 Market St., $37,850; Arnolt-More, Inc., 45 Clinton St., $38,500. Noted Mar. 8.

**Mich., Detroit**—Building vitr. rock, concrete and brick sewers (1) Lateral 3820, 5,000 ft. 12-24 in. (2) Blaine Ave. Arm West, 1,842 ft. 4 ft. 3 in. cylinder (3) Blaine Ave. Arm East, 4,669 ft. 2 ft. 6 in. to 5 ft. cylinder (4) McGraw Ave. Arm, 6,603 ft. 3 ft. to 6 ft. 6 in. cylinder, from Hammen & Co., 4612 Woodward Ave., (1) $24,613 (4) $128,384; Western Constr. Co., 1208 Ford Bldg., (1) $24,500; W. Blanck & Co., 827 Ford Bldg., (1) $21,512; J. Porath, 745 Griswold St., (2) $29,922 (3) $83,013; J. Wagner, 859 West Boston Blvd., (2) $28,530 (3) $80,730 (4) $129,470; R. D. Baker, 1631 Elmhurst Ave., (2) $28,851 (3) $78,370 (4) $127,846. Noted Mar. 15.

**Mich., Detroit**—Building following lateral sewers (1) 3805 (2) 3808 (3) 3813 (4) 3814 (5) 3815 (6) 3818 (7) 3819 (8) 3821 (9) 3823 (10) 3824 (11) 3825 (12) 3827 (13) 3828 (14) 3836 (15) 3837 (16) 3838 (17) 3839 (18) 3840 (19) 3841 (20) 3842 (21) 3843 (22) 3844, from T. D. Nolan, 23 Highland Ave., (1) $8,600 (16) $3,433 (18) $2,974; Western Constr. Co., 1208 Ford Bldg., (1) $8,864 (2) $3,135 (6) $4,491 (10) $16,415 (11) $10,821; C. R. Lennane Co., 2631 Woodward Ave., (1) $8,842; Liberty Constr. Co., 1026 Detroit Savings Bank Bldg., (2) $3,477 (4) $10,775 (6) $3,100 (10) $15,630 (11) $10,290; Hammen & Co., 4612 Woodward Ave., (2) $5,414 (4) $14,418 (6) $5,579 (8) $18,814 (9) $15,254 (14) $9,457 (15) $7,857 (17) $7,747 (19) $7,582 (20) $6,586 (22) $3,056; A. Rossi, 1984 Erskine St., (3) $2,278 (5) $1,599 (7) $799 (12) $1,250 (13) $2,500 (16) $4,500 (18) $3,499 (20) $3,999 (21) $3,616 (22) $1,999; A. Arcari, 425 Puritan Ave., Highland Park, (3) $2,766 (15) $3,836 (16) $3,836 (17) $5,683 (18) $4,153 (19) $5,610 (20) $4,682 (21) $4,079 (22) $1,705; C. Tiseo Co., Detroit, (street address not available), (3) $2,750 (5) $1,600; H. Ponterelli, South Bend, Ind., (5) $4,800 (17) $6,000 (21) $5,161; R. D. Baker, 1631 Elmhurst Ave., (8) $17,500; W. Blanck & Co., 823 Ford Bldg., (8) $15,273 (9) $12,722 (10) $16,000 (11) $10,610; O. Schultz, (9) $13,500; Halpin & Reilly, 818 Hammond Bldg., (12) $1,697 (15) $7,202. Noted Mar. 15.

**Mich., Pleasant Ridge**—O. C. Kell, village clk., 24,341 ft. 12-66 in. sewers, from G. Ponterilli, Wolverine Hotel, Detroit, $156,446; Hammen & Co., 4612 Woodward Ave., Detroit, $187,114; Scott, Cochran & Scott, Lansing, $206,000. Noted Mar. 1.

**Utah, Ogden** — For 8-24 in. sanitary sewers, Dist. 149, from W. E. Roche, Ogden, (street address not available), concrete $74,235; Security Bridge Co., Ogden, (street address not available), vitr. tile $77,950; Wheelwright Constr. Co., 2476 Washington Ave., vitr. tile $80,000.

**Calif., Los Angeles** — Temporary outfall sewer between Higuera St. and Overland Ave., (1) brick concrete (2) pre-cast concrete, with complete vitr. clay lining, lock bars and tie bands (3) pre-cast concrete, omitting invert clay lining, lock bars and tie bands (4) pre-cast concrete, no clay lining (5) Ferguson segment block (6) wood stave (7) pre-cast concrete, without liners (8) pre-cast concrete, omitting clay lining, lock bars and tie bands, pipe same quality as No. 2 and 3, from C. E. Green, Grosse Bldg., (1) $84,000 (2) $109,350 (3) $101,250 (4) $90,450 (5) $99,900 (6) $84,000; W. D. McCray, American Bank Bldg., (1) $103,000 (2) $108,800 (3) $99,800 (5) $97,400 (6) $87,800; Croatian-American Investment Co., 20[illegible] West 2nd St., (1) $113,126 (2) $121,028 (3) $130,530 (5) $121,128 (6) $113,126; C. Thompson and C. E. Heuser, Loew State Bldg., (1) $125,000 (2) $125,000 (3) $118,000 (5) $120,000 (6) $96,600 (7) $109,000.

### CONTRACTS AWARDED

**N. Y., New York**—W. J. Flynn, acting pres. Bronx Boro, 3rd and Tremont Aves., sewers in Strang, Pilgrim, Theriot and Taylor Aves., to J. L. Sigretto, Woodhaven, $134,943, $17,518, $11,163 and $9,630 respectively; Mayflower Ave., to W. McDonald, West 10th St., Brooklyn, $56,492; Cruger and Mace Aves., to J. V. Timoney Co., 220 West 201st St., $12,991 and $1,672 respectively; Roebling Ave., to Knight & Demicco, 448 East Tremont Ave., $8,525; Orloff Ave. and Burnett Pl., to Gregorio & Gabriele, 1129 8th Ave., $10,490 and $4,340 respectively. Noted Mar. 22.

**W. Va., Clarksburg**—See "Streets and Roads."

**O., Ashtabula** — For East Side Sewer, 8,000 ft. 15-27 in. vitr. clay and 2,000 ft. 42 in. segmental block, to C. Hukari, Ashtabula, $116,744. Noted Mar. 15.

**O., Columbus**—See "Streets and Roads."

**Mich., Royal Oak** — For 3rd section of main trunk sanitary sewer, 13,430 ft. 10-30 in. vitr. pipe, to R. D. Baker & Co., 1631 Elmhurst Ave., Detroit, $92,000. Noted Feb. 22.

**Ill., Bellewood**—Sewers and water mains, to Kruse Constr. Co., Marion City, Ia., $59,000.

**Ill., Chicago** — Bd. Local Impvts., 207 City Hall, Mar. 23, sewers in various streets, to J. Tiritilli, 910 Laflin St., M. Pontarelli, 4838 Dakin St., and O. Scully, 1654 West 69th St., $138,096. Noted Mar. 15.

**Wis., Beloit**—Concrete sanitary sewers in State St. from Race to Broad Sts., to Mierswa Constr. Co., 508 West Milwaukee St., Janesville. Engrs. est. $25,000. Noted Feb. 22.

**Wis., Milwaukee**—Metropolitan Sewerage Comn., 508 Market St., 10,425 ft. sewers (Sect. 1) 1st, Austin, Cora and Clement Aves., to Knowles & Fehr, Inc., 314 North Dearborn St., Chicago, $330,728.

**Neb., York**—See "Streets and Roads."

**Mo., Neosho**—H. A. F. Cloud, city clk., to Queal Constr. Co., Herington, Kan., sanitary sewers in Sect. 1 (Public Sewers), $53,087, Dist. Sewers (Dist. 1) $19,481, Dist. Sewers (Dist. 2) $2,671, Dist. Sewers (Dist. 3) $96,060. This corrects report in Mar. 22 issue.

**Tex., Denton**—Disposal plant, 1,600 cu. yd. excav., 6200 cu.yd. concrete, 2,000 cu.yd. filter material, to W. M. Jagoe & Co., Denton, $29,459. Engrs. est. $40,000.

**Ont., Ottawa**—Furnishing 10,000 ft. concrete sewer pipe, 18 in. up, to Dominion Lock Joint Pipe Co., Harbor Bldg., Toronto, $36,000.

**Ont., Toronto**—For 10,000 ft. brick and tile relief sewer in Roncesvalles Ave., to J. O. Jerou, 90 Curzon St., $130,807.

## Bridges

### PROPOSED WORK

**North Carolina**—See "Miscellaneous."

**Florida**—See "Railways."

**Neb., Blair**—Chicago & North Western R.R., West Jackson Blvd. and Franklin St., Chicago, soon lets contract replacing 1,000 ft. steel and concrete bridge over Missouri River, near here. Will use old foundations. $1,000,000. W. J. Towne, Chicago, ch. engr.

**Calif., Long Beach**—Los Angeles Co. (Los Angeles), had plans prepared 520 ft. steel girder bridge over Los Angeles River on American Ave., here, 5 full spans each 80 ft. long, etc. To exceed $75,000. W. D. Armstrong, co. bridge engr.

**Ont., Preston** — Plans bridge, probably steel truss, concrete abutments, over Speed River. $50,000-$100,000. G. Wurster, town clk. Engineer not selected.

**Ont., Toronto**—Sketches and plans being made concrete and steel bridge on Huntley St., $127,000. R. C. Harris, city engr.

Bridges (Continued)

BIDS DESIRED

**Pa., Johnstown**—April 16, at office M. L. Masterson, supt. streets and pub. improvements, City Hall, building Coopersdale and Woodvale Bridges. J. E. Greiner & Co., Baltimore, Md., and Pittsburgh, consult. engrs.; adv. this issue.

**N. C., Troy**—See "Streets and Roads."

**Georgia**—Apr. 3, by State Hy. Dept., Atlanta, bridge and 5 x 5 ft. rein.-con. box culvert on Jackson Griffin Rd., Federal Aid Project 260, Butts Co., 727.07 cu.yd. concrete, 81,249 lb. steel, 556 sq.yd. 4 in. concrete pavement. Cement to be furnished by contractor. E. H. Davis, Griffin, engr.

**Fla., Quay**—Apr. 10, by R. D. Carter, engr., Vero, 5,000 ft. timber trestle, 2,500 ft. approaches, sand fill, over Indian River, here, for St. Lucie Co. (Ft. Pierce). $35,000. Noted June 15.

**La., Mermentau**—Apr. 12, by Louisiana Hy. Comn., Reymond Bldg., Baton Rouge, bridge over Mermentau River. Alternate A vertical lift layout, Alternate B center bearing swing layout. J. M. Fourmy, state engr.

**Wis., Madison**—Plans 33 ft. rein.-con. deck girder single span bridge over Starkeweather River, 44 ft. roadway, two 10 ft. walks, on Fair Oaks Ave. $25,000. H. C. Buser, clk. Engineer not selected.

**Illinois** — Apr. 13, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, 8 concrete bridges in various counties. C. H. Older, ch. highway engr.

**Ia., Primghar**—Apr. 3, by Auditor O'Brien Co., 20 box culverts, 6 I-Beam and 4 pony truss bridges. W. L. Anderson, Primghar, engr.

**Ore., Astoria**—State Hy. Comn., Salem, opens bids about Apr. 15, single leaf bascule bridge, 100 ft. clear span, concrete piers and about 700 ft. pile trestle approach, over Lewis & Clarke River, near here. H. Nunn, state highway engr. Noted Mar. 1.

BIDS RECEIVED

**Alabama**—See "Streets and Roads."

**La., New Orleans**—Dept. Pub. Finances, City Hall, Scherzer rolling lift bridge over Navigation Canal, Broad St., to Pensacola Shipbuilding Co., Little Bayou, Pensacola, Fla., $53,000. Noted Mar. 8.

**Mich., Detroit**—Two 120 ft. steel pony truss bridges, Five Mile Rd. and Warren Ave., from Amer. Bridge Co., 2273 Beecher Ave., $43,092; Flint Structural Steel Co., Flint, $44,546; Wisconsin Bridge & Iron Co., 1352 Penobscot Bldg., $47,687.

CONTRACTS AWARDED

**Ia., Clinton**—Clinton Co., 8 rein.-con., box culverts, 3 I-beam spans and 2 pony truss spans, to J. R. Kane, Charlotte, $28,800. Concrete figures $22.50 per cu.yd., structural steel $0.07 per lb. elected.

**Ia., Washington** — Washington Co., 42 concrete box culverts, 2 concrete deck girders and encasing 1 pier, to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, $46,425. Concrete figures $23.79 to $25.47 per cu.yd. Noted Mar. 1.

**Minn., Mantorville** — See "Streets and Roads."

**Minn., Minneapolis** — Northern Pacific R.R., 5th and Jackson Sts., St. Paul, grade separation, incl. 140 ft. concrete bridge, 30 ft. wide, to carry double tracks, at Central Ave. near 15th Ave. N. E., here, and change in railroad grade covering ¾ mi., to Grant Smith & Co., 1505 Pioneer Bldg., St. Paul. Owner furnishes materials. Total cost $130,000. Noted Dec. 22, 1921, under "Miscellaneous."

**S. D., Aberdeen**—Brown Co., one 140 ft., one 40 ft., one 50 ft., two 24 ft., and one 20 ft. spans, to H. Pickus Constr. Co., 2316 3rd Ave., Sioux City, Ia., $29,000.

**Kan., Oskaloosa**—Jefferson Co. 130 ft. concrete arch bridge on Golden Belt Highway, to F. Luttjohann, 2101 Kansas Ave., Topeka, $28,977. Noted Feb. 22.

**Wash., Colfax** — Inland Empire, R.R., Terminal Bldg., Spokane, will take down two 100 ft. spans of wooden through Howe truss, replace one span by trestle, erect 1 new 100 ft. Howe truss, repair foundations, remove old pier, near here. Work will be done by day labor. $25,000. H. Powell, Terminal Bldg., Spokane, engr.

**Wash., Spokane**—Spokane Co., 3 bridges over Latah, Spangle and California Creeks, on Valley Chapel Mount Hope Rd., to C. L. Graves, 2124 Montgomery St., $27,275. Engrs. est. $30,000.

# Dams

PROPOSED WORK

**N. C., Mt. Gilead**—See "Waterworks."

**Mo., Leeper**—Land owners headed by W. H. Meredith, Poplar Bluff, making preliminary surveys dam and flood water reservoir, on Black River. $2,000,000. Engineer not announced.

**Calif., Willits** — Central Mendocino County Power Co., takes bids about Apr. 10, materials in connection with concrete dam, incl. 3,000 lin.ft. 12 in. wood stave or iron pipe and 17,000 lin.ft. 12 in. concrete pipe line, cost $20,000. Total cost $25,000. E. Morris, Willits, ch. engr.

BIDS DESIRED

**N. Y., Newburgh and Calif., Oroville**, noted on Feb. 15 summary, will be found listed under "Excavation, Drainage and Irrigation," page 164.

# Railways

PROPOSED WORK

**Florida**—Muscle Shoals, Birmingham and Pensacola Ry., Pensacola, plans rehabilitation of existing railway and line, from Pensacola to Muscle Shoals, placing large number ties, renewing rail, building bridges, ballasting, new coaling stations, water stations and other general improvements. Will sell $600,000 bonds. A. S. Butterworth, Pensacola, ch. engr.

**Texas**—R. C. Duff, 802 Carter Bldg., Houston, purchased Beaumont & Great Northern and Trinity & Sabine Rys., plans to expend $4,000,000 extending consolidated lines, incl. line from Waco to the Gulf, shops, equipment, etc.

**Texas** — Northern Texas Traction Co., 2nd and Main Sts., Ft. Worth, plans line improvement and extensions to following suburbs, Riverside, Sycamore Heights, Seminary Hill and Texas Christian University, 10-15 mi. track. $500,000. C. H. Clifford, vice pres. and genl. mgr.

**Idaho** — Oregon-Washington R.R. and Navigation Co., 15th and Dodge Sts., Omaha, Neb., having surveys made road from Pine Creek Station, Wallace, to point above forks of Pine Creek on West Fork, incl. 2 mi. rebuilding and 3 mi. extension. $50,000. R. L. Huntley, ch. engr.

**California — San Francisco** — Oakland Terminal Rys., 22nd and Grove Sts., Oakland, plans reconstructing tracks in Grove St. between Berkeley Way and The Alameda, Berkeley. $100,000. E. M. Boggs, c/o owner, consult. engr.

**Ontario**—Hydro Electric Comn., London, plans to expend $800,000 on street railway extensions incl. double tracks, new cars, etc. A. Beck, chn.

BIDS RECEIVED

**California**—Southern Pacific Co., 65 Market St., San Francisco, 6.7 mi. double tracking over Sierra Nevada Mountains, in vicinity of Truckee, Nevada Co., 100,000 cu.yd. excav., from Erickson & Petterson, Monadnock Bldg., San Francisco; 5 mi. double tracking, over Sierra Nevada Mountains, near Truckee, Nevada Co., 70,000 cu. yd. excav., from Utah Constr. Co., Phelan Bldg., San Francisco.

CONTRACTS AWARDED

**Minnesota** —See "Bridges" under Minneapolis.

**Wyoming** — Middle States Oil Co., 347 Madison Ave., New York City, 330 mi. railroad and telegraph system, also 660 mi. fencing, between Casper, Wyo., and Miles City, Montana, to Peterson-Shirley & Gunther, 1411 Woodmen of World Bldg., Omaha, Neb., $12,000,000.

**Nevada**—Southern Pacific Co., 65 Market St., San Francisco, Calif., 21 mi. road between Wells and Moore, and 32 mi. road from Valley Pass to Montella, to Utah Constr. Co., Phelan Bldg., San Francisco, Calif.

# Excavation, Drainage, Irrigation

BIDS DESIRED

**Ia., Carroll**—April. 2 by Aud. Carroll Co., D.D. 90, 4,000 lin.ft. open ditch, 73,450 cu.yd. excav., 49,900 lin.ft. 6-12 in. clay or cement tile, 16,750 lin.ft. 14-24 in. cement or vitr clay tile, 6,200 lin.ft. 40-46 in. cement tile, etc. $55,000. I. W. Hoffman, Carroll, engr. Noted Mar. 15.

**Ia., Nevada**—Apr. 6 by Auditor Story Co., Marshall-Story D.D. 3, 53,830 lin.ft. 6-39 in. tile, etc. in Story and Marshall Counties. $35,000. W. A. Olson, Nevada, engr.

**B. C., Penticton**—Apr. 3, by Minister of Lands, Victoria, excavating 31,210 lin.ft. main irrigation canal in Oliver near here, incl. 35,631 cu.yd. excav. $30,000. F. H. Latimer, Oliver, engr.

**B. C., Vancouver**—Apr. 9, by City Council, dredging, excavating and laying 18 in. flexible steel pipe (pipe supplied by city) across False Creek near Connaught Bridge. $80,000. F. L. Fellowes, city engr.

CONTRACTS AWARDED

**Mo., Carrollton** — Wakenda Twp. Dist., c/o R. C. Martin, secy., approximately 250,000 yd. earth excav. for drainage district, to J. D. Jones Constr. Co., Chillicothe, $0.1112 per cu.yd.

**Calif., Corcoran** — Corcoran Irrigation Dist., will excavate 3,850 ft. canal, 17,700 cu.yd. excav., by day labor. Former bids rejected. Noted Mar. 1.

# Streets and Roads

PROPOSED WORK

**Conn., Hartford**—Plans paving 5,000 sq. yd. Ann St. $25,000; 20,000 sq.yd. Park St. from City Line east $90,000; 14,000 sq.yd. Park St. from Zion to Chadwick Sts. $66,000; 8,445 sq.yd. Washington St. $40,000; 4,330 sq.yd. Webster St. $17,000; 6,485 sq. yd. Broad St. $25,000, all foregoing asphalt on 6 in. concrete; 7,000 sq.yd. Preston St. concrete, $25,000. M. Skilton, city engr.

**N. Y., Alexandria Bay**—Plans paving several streets, bituminous macadam. $30,000. J. B. Lee, village pres.

**N. Y., Buffalo**—Erie Co. plans paving 9.25 mi. concrete roads, 6.5 mi. asphalt road and 12.5 mi macadam roads. $200,000. G. C. Diehl, co. engr.

**N. Y., Carmel**—Putnam Co. plans improving 2.04 mi. Federal Aid Project 204 rein.-con. in town of Southeast, 10 mi. road from here to Kent and Putnam Valley, bituminous material. Latter project will be done by force account under supervision of respective town superintendents. R. Mitchell, co. supt.

**N. Y., Eastwood**—Voted $60,000 bonds paving Midler Ave. and Sunnycrest Rd. J. J. Schaefer, village pres.

**N. Y., Frankford**—Voted $75,000 bonds paving Pleasant and 3rd Aves., Frankfort, Litchfield, Mann, Railroad and Palmer Sts. S. S. McGowan, village pres.

**N. Y., Lockport** — Niagara Co. plans constructing roads. $700,000. T. Brennan, supt. highways.

**N. Y., Syracuse**—Bd. Pub. Wks. and T. H. Mather, city engr., soon take bids paving Baker, Barnes and Warner Aves. To exceed $25,000.

**N. Y., Watertown**—Jefferson Co. making plans about 50 mi. bituminous macadam highways. $250,000-$300,000. D. G. Scott, co. supt.

**N. J., Cedargrove**—Essex Co. (Newark) plans grading and paving 2,830 ft. Stevens Ave. from Pompton Turnpike to Passaic Co. line, 20 ft., 6,400 sq.yd. 8 in. concrete, etc. $29,199. W. A. Stickel, Court House, Newark, engr.

**N. J., East Orange**—Soon takes bids resetting curb on both sides and asphalt paving Main St. between Arlington Ave. and Sterling St. $75,000.

**Pa., Corry**—Plans paving Concord, North 2nd and East Sts., brick, $25,000.

**Pa., Dayton** — Plans grading, curbing, rein.-con. or brick pavements and sewers in Main St. $80,000. W. G. Aye, Kittanning, boro. engr.

**Pa., Greenville**—Plans paving, repaving concrete curbing and guttering 3,700 ft. North High, South Mercer and West Main Sts. $25,000. F. P. Clarke, boro. engr.

**D. C., Wash.** — Dist. Comrs., 509 Dist. Bldg., plan roads and streets in suburbs. $275,000.

**D. C., Wash.**—Dist. Comrs., 509 Dist. Bldg., plan to improve Connecticut Ave. $75,000, also various streets and roads $885,000.

**W. Va., Fairmont**—Winfield Dist., Marion Co., voted $200,000 bonds for road work. F. J. Wilfong, Fairmont, engr.

**N. C., Mt. Gilead**—Had plans prepared grading, curbing, guttering, paving, laying sewers and sidewalks on 18,500 sq.yd. Main, Depot, Ingram, Burton and Haywood Sts., Allington and Wadesboro Rds. $69,000. H. Beebe, Spartanburg, S. C., consult. engr.

**N. C., Norwood**—Plans grading, curbing, guttering and paving East Main, Whitley and Anson Sts.; grading, curbing, guttering

Streets and Roads (Continued)

and topsoiling Allenton and Church Sts. Sidewalks will be laid on practically all streets. $83,000. H. Beebe, Spartanburg, S. C., consult. engr.

**N. C., Waynesville**—Plans paving Haywood, Church, Walnut and Boundary Sts., et al. $100,000.

**S. C., Greer**—Plans grading, curbing, guttering and paving 9,400 ft. Pelham Rd., Main, Hill, Trade, Mostella, Randall and Victoria Sts., $100,000 bonds voted. H. Beebe, Spartanburg, consult. engr.

**Fla., Cocoanut Grove**—Plan election to vote on $200,000 bonds constructing streets and sidewalks. H. M. Matherson, mayor.

**Fla., Inverness**—Citrus Co. voted $750,000 bonds, State Road 5, Tamiami Trail, and lateral roads.

**Fla., Madison** — Madison Co. rejected bids Feb. 7, sand clay surfacing 28 mi. Rd. 1, 12.94 mi. Rd. 3-11, 19.38 mi. Rds. 4 and 6. Will readvertise. C. S. Wadsworth, Madison, engr. Noted Feb. 1.

**Fla., Miami Beach**—Apr. 9, to vote on $96,000 bonds penetration macadam paving Collins Ave. between 24th and 26th Sts. and between 5th and 23rd Sts., surfacing with sand and oil Collins Ave. between 25th St. and Indian Creek; $27,206 curbing, guttering and penetration macadam paving Sheridan Ave., Dade Blvd. and 11th St.; $29,942 curbing, guttering and penetration macadam paving Indian Creek Dr. and 1st St. R. M. Davidson, Miami Beach, engr.

**Alabama**—State Hy. Dept., Montgomery, having plans prepared grading and surfacing with gravel or sand clay 6.178 mi. road from Sunny South to Thomasville, Clarke Co. $85,000. W. S. Keller, state highway engr.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, rejected bids opened Mar. 13, grading and paving 2.531 mi. Sect. "Z" Canfield-Poland Rd., Mahoning Co. Noted Mar. 22.

**O., Cincinnati** — Plans repaving Gilbert Ave. viaduct, 6,500 sq.yd. granite block. $59,285. F. Krug, City Hall, engr.

**O., Columbus** — Making plans grading, water services, sewer connections and paving 43,095 ft. Kinnear alley, alley north of Blake Ave., Rich St. and Midgard Rd., brick, concrete, asphalt or asphaltic concrete. R. H. Simpson, city engr.

**O., Niles**—Plans paving Vienna Ave., repaving Robbins Ave. $25,000. Engineer not announced.

**O., St. Clairsville**—Belmont Co. making plans curbing and paving 5 mi. Warnock Pike and 4 mi. St. Clairsville-Glencoe Rd., brick, 7 in. concrete, waterbound macadam or tar bound macadam. $200,000. L. A. Darrah, Court House, co. engr.

**O., Warren** — Plans paving Forest St. and Highland Ave., $42,320; South Homewood, Roosevelt and East Summit Sts., asphalt or brick, $25,000. Engineer not announced.

**Wis., Marshfield** — Making plans paving 75,000 sq.yd. various streets. $300,000. J. H. A. Bratz, 309 Metropolitan Opera House Blk., St. Paul, Minn., engr.

**Wis., Port Washington** — Making plans concrete paving, curbing and guttering Grand and Spring Sts., 18 ft. $25,000. J. Donohue & Co., 608 North 8th St., Sheboygan, engrs.

**Wis., Shawano**—Making plans concrete Main St. and re-surfacing various other streets. $25,000. J. Donohue & Co., 608 North 8th St., Sheboygan, engrs.

**Minn., Hibbing** — Rejected bids opened Mar. 17, paving 40 blocks, various types, concrete curbs and gutters. Will probably readvertise. $170,000. Noted Feb. 15.

**Kan., Larned** — Pownee Co. soon takes bids sand clay surfacing 11.214 mi. Fort Larned-Burdett Rd., 18 ft. V. Stuart, co. engr.

**Kan., Oswego**—Labette Co. soon take bids bituminous macadam or gravel surfacing 7.901 mi. Federal Aid Project 126, Sect. A, 16 ft. H. K. Schideler, co. engr.

**Neb., Loup City**—Soon takes bids curbing, guttering and 30,000 sq.yd. vitr. brick, asphalt or concrete paving on various streets. $75,000. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

**S. D., Bison**—Perkins Co. plans to expend $65,042 for road and bridge construction in 1923. E. N. Robinson, aud.

**Mo., St. Louis**—Soon takes bids improving 14,516 ft. Enright, Wise and Dewey Aves., 12th, Magnolia, Pearl, North Magnolia, South Magnolia, Walderman, Leamington, Ray, Marmaduke, Alsace, Keokuk and Tennesee Sts., asphalt, bitulithic or asphaltic concrete. $189,775. W. W. Horner, 300 City Hall, engr.

**Tex., Corsicana**—Apr. 3, to vote on $75,000 bond issue for street paving and improvements. H. A. Halbert, mayor.

**Tex., Dallas**—Plans 12,000 sq.yd. bitulithic pavement, etc., on Richmond St. $38,090. G. D. Fairtrace, city engr.

**Tex., Dallas**—Dallas Co. making plans grading, surfacing with 2 in. asphalt on macadam 3.1 mi. East Pike, east from Mesquite, 20 ft. $135,000. Nagle-Witt-Rollins Eng. Co., Courthouse, engrs.

**Tex., Falfurrias** — Brooks Co. making plans grading, gravel and caliche surfacing 10 mi. State Highway 12, 16 ft. $90,000. H. S. Bedell, co. engr.

**Tex., Henrietta**—Clay Co. voted $575,000 bonds improving roads. J. F. Vaden, co. judge. Engineer not selected.

**Tex., Hondo**—Medina Co. making plans grading, gravel surfacing and 1 in. asphalt topping 7.58 mi. San Antonio-Del Rio Highway, 18 ft. $118,000. Walton & Arneson, Gunter Bldg., San Antonio, engrs.

**Tex., Johnson City**—Blanco Co. making plans grading and adobe surfacing 8.7 mi. Austin-Fredericksburg Highway, 16 ft. J. W. Puckett, co. engr.

**Colo., Denver** — Making plans grading, concrete curbing and surfacing 4 mi. South Denver Impvt. Dist. 16, 30 ft., $108,104, 5 mi. North Denver Impvt. Dist. 31, 30 ft., $107,346. A. K. Vickery, City Hall, engr.

**Utah, Ogden**—Takes bids in May or June, hardsurfacing 7 blocks Wall St., $85,000; 29th, 31st, Adams and Jefferson Sts., $100,000. W. S. Craven, city engr.

**Calif., Mayfield** — Plans paving various streets, probably oil macadam. To exceed $100,000.

**Calif., Bakersfield**—Takes bids about April 15, grading, curbing, guttering and paving with 2 in. warrenite bitulithic on 3½ in. asphaltic concrete, portions R. 20th and 21st Sts., 285,000 sq.ft. paving, etc. W. D. Clarke, city engr. Noted Feb. 7.

**Calif., Hanford** — Had plans prepared grading, curbing, guttering and paving with 1½ in. warrenite bithulithic on 4 in. bituminous portions of West 6th and Phillips Sts., etc., 155,400 sq.ft. paving, etc. B. Duffield, city engr.

**Calif., Orange** — Having plans prepared paving with 7 in. concrete, curbing and laying sidewalks on 38 blocks. C. Bonebreak, city engr.

**Calif., Santa Maria** — Had plans prepared concrete paving and curbing West Main St., 157,000 sq.ft. pavement, 3,500 lin.ft. curb. H. Neel, city engr.

**Calif., San Rafael**—Had plans prepared grading, curbing, guttering and waterbound macadam paving portions 6th St., 26,000 ft. paving, etc. H. K. Brainerd, city engr.

**Calif., Stockton**—Had plans prepared grading, curbing, guttering, laying sidewalks and paving with 2 in. asphalt macadam on 4 in. cement gravel, portions Harrison, Lincoln, Worth and Anderson St., etc., 194,928 sq.ft. paving, etc. W. B. Hogan, city engr.

**Ont., Toronto**—Plans 5,600 sq.yd. asphalt pavement $28,431, 700 lin.ft. concrete curbs $676, concrete sidewalks $9,497. R. C. Harris, city engr.

## BIDS DESIRED

**Rhode Island**—Apr. 6, by State Bd. Pub. Roads, Providence, 1.67 mi. Contr. 2301, Federal Aid Project 15, bituminous macadam; 5.7 mi. Contr. 2302, Federal Aid Project 16, bituminous concrete; adv. this issue.

**Connecticut**—Apr. 3, by C. J. Bennett, state highway comr., Hartford, paving 23,517 lin.ft. road in towns of Bristol, New Britain, Plainville and West Haven, concrete; 15,850 lin.ft. in East Hartford and Manchester, bituminous macadam; 4,750 lin.ft. in Stafford, waterbound macadam; 6,865 lin.ft. in Stratford, sheet asphalt; adv. this issue.

**N. Y., Batavia**—Common Council taking bids paving Bank and State Sts., concrete, brick or asphalt. Takes bids at later date paving Walnut, Hutchins and Liberty Sts. To exceed $25,000.

**N. Y., Brooklyn**—Apr. 4, by E. Riegelmann, boro pres., Boro Hall, curbing and asphalt paving Bedford Ave., East 7th, East 19th and East 22nd Sts.; asphalt paving Louisiana, Hegeman and 8th Aves., 56th, 58th, 82nd and 85th Sts.; grading, curbing and flagging 13th Ave., 40th, East 15th and West 12th Sts.; grading sidewalk space and laying cement sidewalks on Utica Ave.

**N. Y., Long Island City**—Apr. 2, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks, etc. on Alburtis, Lent and Trimble Aves., 41st and 88th Sts., sheet asphalt paving Alburtis Ave. from Polk to Corona Aves., Alburtis Ave. from Fillmore to Polk Aves., Crescent St. from 13th St. to Hunter Ave., Hunter Ave. from Harris to Nott Aves., 13th St. from Crescent St. to Hunter Ave., in roadway connecting Hunter and Nott Aves., 41st St. from Jackson to Fillmore Aves., 88th St. from Jamaica to Atlantic Aves.; repaving within railroad area of State St. from Prince St. to Linden Ave., Prince St. from Bway to State St., Flushing; recurbing and asphalt paving Centre St.; curbing, laying sidewalks and asphalt paving Hull Ave.; grading, curbing, laying sidewalks and asphalt paving 108th St.; grading that portion of Beach Channel Dr. and inshore and outshore areas; grading for width of 24 ft. and bituminous macadam paving for width of 20 ft., both centrally located 100th (Chichester) Ave.

**N. Y., Mineola**—Apr. 9, by Bd. Supervs. Nassau Co., Court House, improving Park St. W. F. Starks, co. engr.; adv. this issue. Former bids rejected. Noted Mar. 8.

**N. Y., New York**—Apr. 3, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., paving White Plains Rd. and Fulton Ave., granite blocks, Rae St., sheet asphalt, Ryer Ave., asphalt blocks, West 179th and West 170th Sts., bituminous concrete; grading, etc., Taylor and Liebig Aves.; grading and setting curb, etc., on Knox Pl. and Bryant Ave.

**N. J., Freehold**—Apr. 11, by Monmouth Co. reconstructing Sea Bright-Highlands Rd. 54, Freehold-Eatontown Rd. 42, Sect. 1, and Farmingdale-Manasquan Rd. 34, Sect. 1; adv. this issue.

**N. J., Newark** — Apr. 5, by Purchasing Agent Essex Co., grading and paving 4,650 ft. Chancellor Ave., 48 ft., 3 in. sheet asphalt on 6 in. concrete. $110,213. W. A. Stickel, Newark, engr.

**Pa., Kingston**—(Wilkes-Barre) Apr. 16, by Boro. Council, 14,000 sq.yd. paving on concrete, curbing, 18,000 cu.yd. filling, 1 mi. sanitary sewers Young & Wintermute, 404 2nd National Bank Bldg., engrs.

**Pa., Shenandoah**—Apr. 16, paving West Coal St. G. Feist, chn. street comn.; adv. this issue.

**Pa., Wilkes-Barre**—Apr. 3, by F. Gates, city clk., asphalt pavements on 5 streets. Cost to exceed $75,000.

**Delaware**—Apr. 11, by State Hy. Dept., Dover, 9.92 mi. roads, Contrs. 25, 32 and 37, 0.25 mi. fill, Contr. 37 A, etc.; adv. this issue.

**Maryland**—April 10, by State Rds. Comn., Baltimore, concrete paving 9.84 mi. Contrs. F-63, HO-23, P-44, CO-32, D-31, S-17 and Q-25, Frederick, Howard, Prince George, Caroline, Dorchester, Somerset and Queen Annes Counties. J. N. Mackall, chn.; adv. this issue.

**Md., Cumberland**—Apr. 2, by Mayor and City Council, at office of City Clerk, improving streets, involving 18,130 sq.yd. brick paving, 950 sq.yd. concrete paving and 9,968 lin.ft. concrete curb. R. L. Rizer, city engr.

**W. Va., Morgantown**—Apr. 2, by A. A. Hall, city mgr., 5,000 sq.yd. brick and 15,000 sq.yd. bituminous concrete on concrete, 10,000 lin.ft. curbing. C. W. McDowell, city engr.

**N. C., Troy**—Apr. 6, by Montgomery Co. Road Trustees, topsoiling 8.8 mi. road from Fether to Saunders Store, also two 12 x 70 ft., steel bridges, rein.-con. abutments over Little River. $50,000. L. V. Edwards, Masonic Temple, Winston-Salem, engr.

**S. C., Easley**—Apr. 10, by Paving Com. and Town Council, paving and laying sidewalks on various streets. H. Beebe, Spartanburg, engr.; adv. this issue.

**Georgia**—Apr. 3, by State Hy. Dept., Atlanta, grading and gravel surfacing 5.82 mi. Federal Aid Project 294, Thomas Co., on State Route 38, 11,941 cu.yd. 7 in. compacted gravel, etc. E. J. Smith, Thomasville, engr.

**Fla., Jacksonville** — Apr. 12, by E. P. Owen, secy. City Comn., 2,150 sq.yd. concrete sidewalks, 20,763 sq.yd. tile sidewalks and driveways, also grading, filling, curbing, etc. $30,000. W. E. Sheddan, city engr.

**Fla., Tavares**—Apr. 2, by Lake Co., grading and sand clay surfacing 14.1 mi. Rd. 1, Southern Lake Co. Special Road and Bridge Dist., via Howey and Yalaka. $87,629. Former bids rejected. G. E. Heller, Tavares, engr.

**Tenn., Dyersburg**—Apr. 5, by Dyer Co. Pike Comn., 60 mi. roads, concrete or gravel. L. O. Brayton, engr.

**Ky., Harlan**—Apr. 2, grading, curbing, guttering and paving 7,100 ft. Main St.,

Streets and Roads (Continued)

3,600 ft. Bailey, Oak, Jones, 1st, Central and 2nd Sts., Harlan Ave. and Courthouse Alley, 26,375 sq.yd. 6 in. rein.-con., 6,885 sq.yd. Kentucky rock asphalt, 3,225 sq.yd. bituminous macadam, etc. $100,000. Glazier & Morlidge, 20-23 Miller Bldg., Cincinnati, O., engrs.

**O., Cleveland**—Apr. 9, by Bd. Educ., East 6th St. and Rockwell Ave., grading, sidewalks, etc., for playgrounds at Audubon, Lafayette, Mt. Auburn, Rickoff and Warner Rd. Schools. To exceed $25,000. W. R. McCornack, East 6th St. and Rockwell, archt.

**O., Columbus**—Apr. 3, by W. H. Duffy, dir. Pub. Serv., State St. and Grant Ave., grading, curbing, water and sewer connections and paving 3,824 ft. Grubb St. and 5th Ave., brick $158,355, asphalt, $142,584. R. H. Simpson, City Hall, engr.

**O., Martins Ferry**—Apr. 2, by Dept. Pub. Serv., paving 1 mi. various streets and alleys, brick or concrete. $45,000. T. K. Rothermund, City Bldg., city engr.

**Indiana**—Apr. 10, by J. D. Williams, dir. State Hy. Comn., Indianapolis, paving 33.457 mi. highways, in Steuben, Putnam, Scott, Jackson, Marion, Vigo and Sullivan Counties, bids on brick, bituminous concrete and concrete; gravel base on 6.813 mi. also grading and structures under 20 ft. span only on 5.571 mi., Perry Co.

**Michigan**—Apr. 9, by State Hy. Dept., Lansing, grading and surfacing 2.367 mi. road in Hillsdale Co., 9,704 cu.yd. excav., 27,774 sq.yd. concrete. F. F. Rogers, state comr.

**Michigan**—Apr. 10, by State Hy. Dept., Lansing, grading and surfacing 5.17 mi. State Trunk Line Rd. 16-21, Wayne Co., 161,690 cu.yd. excav., 140,256 sq.yd. concrete, 54,400 lin.ft. concrete curb and gutter. F. F. Rogers, state comr.

**Mich., Bad Axe**—Apr. 4, by Huron Co., grading and gravel surfacing 16.25 mi. roads in various townships. W. W. Lavers, co. engr.

**Mich., St. Johns**—Apr. 14, by Clinton Co., grading and gravel surfacing 4 mi. Assessment Dist. Rd. 19. L. E. Belknap, co. engr.

**Illinois**—Apr. 13, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 308.79 mi. roads in various counties. Alternate bids on concrete, 4 in. monolithic and 4 in. bituminous filled brick, and bituminous concrete with and without binder course. C. Older, ch. highway engr.

**Wisconsin** — April 4, by State Hy. Comn. at div. office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading and surfacing 1.78 mi. Caloma-Wautoma Rd., Waushara Co., 5.75 mi. Friendship-Kilbourn Rd., Adams Co. A. R. Hirst, state highway engr.

**Wis., Fond du Lac**—Apr. 10, by A. M. Hunter, city clk., 57,640 sq.yd. paving, 7 types, 44,000 lin.ft. concrete curb and gutter. G. H. Stanchfield, City Hall, engr.

**Wis., Ripon**—Apr. 10, by F. A. Preston, city clk., 10,000 sq.yd. concrete, 3,000 lin. ft. combined concrete curb and gutter. $25,000. Private plans.

**Ia., Council Bluffs**—Apr. 9, by A. Hochman, clk., approximately 60,000 sq.yd. warrenite-bitulithic, asphalt or plain concrete paving. $160,000. E. E. Spetman, city engr. Noted Mar. 15.

**Ia., Dunlap**—Apr. 11, by M. M. Rawlings, clk., grading, paving, curbing, various streets, 21,000 cu.yd. excav., 60,000 yd. concrete, sheet asphalt or brick, etc., 31,000 lin.ft. curb and gutter. $200,000. Henningson Eng. Co., National Bldg., Omaha, Neb., engrs. Noted Mar. 22.

**Minn., Buffalo**—Apr. 10, by Wright Co., grading 3.8 mi. State Aid Rd. 5, 4.8 mi. State Aid Rd. 1, and 6 mi. State Aid Rd. 6; gravelling 3 mi. State Aid Rd. 3, $26,000. C. E. Stahl, Buffalo, engr.

**Minn., Mankato**—Apr. 3, by C. L. Kennedy, aud. Blue Earth Co., Job 2301, State Rd. 10, 51,474 cu.yd. excav., 76,544 cu.yd. overhaul; Job 2302, State Rd. 11, 28,812 cu.yd. excav., 30,550 cu.yd. overhaul. $25,000. J. W. Hruska, Mankato, engr.

**Minn., Moorhead** — Apr. 10, by A. O. Houglum, aud. Clay Co., improving 6 mi. State Rd. 15, Egan twp., 45,355 cu.yd. excav., 11,260 cu.yd. overhaul; 8 mi. State Rd. 16, Goose Prairie and Comwell Twps., 41,654 cu.yd. excav., 24,550 cu.yd. overhaul, etc. E. Martinson, Moorhead, engr.

**S. D., Mitchell**—Apr. 16, by City Auditer, 51,000 sq.yd. asphalt or concrete paving.

**S. D., Pierre**—Apr. 10, 25,000 sq.yd. paving, etc. $100,000. T. H. Johnson, 319 Iowa Bldg., Sioux City, engr.

**S. D., Sioux Falls** — Apr. 20, by City Auditor, 51,000 sq.yd. concrete or asphalt pavements.

**North Dakota** — Apr. 6, by State Hy. Comn., Bismarck, 24.563 mi. road, Walsh Co., 150,597 cu.yd. excav., 779 cu.yd. concrete, 85,551 lb. reinforcing. W. H. Robinson, ch. engr.

**Mont., Glendive**—Apr. 16, grading and paving 0.97 mi. Merrill Ave., Federal Aid Project 199, 18 ft., 10,000 sq.yd. concrete or bituminous concrete, on concrete, 4,000 cu. yd. excav. $43,000. J. N. Edy, ch. engr. State Hy. Comn.

**Mo., St. Louis** — Apr. 17, by Bd. Pub. Serv., City Hall, paving 15 alleys, 18,925 sq.yd. 6 in concrete. $58,300. W. W. Horner, City Hall, engr.

**Tex., Corsicana**—Apr. 5, by A. P. Mays, judge Navarro Co., surfacing with rein.-con. 6.4 mi. State Highway 31, 12 ft. $92,000. McClendon & Purnell, co. engrs.

**Colo., Denver**—Apr. 3, by Dept. Impvts. and Parks, concrete curbing and grading 10 mi. in North Denver Impvt. Dist. 30. $81,000. A. K. Vickery, City Hall, engr.

**Colo., Denver**—Apr. 5, by Dept. Impvts. and Parks, concrete paving 10,000 sq.yd. Alley Paving Dist. 87, $25,000; 12 blocks Alley Paving Dist. 88, $25,000. A. K. Vickery, City Hall, engr.

**Colo., Denver**—Apr. 7, by Dept. Impvts. and Parks, concrete paving 10,000 sq.yd. Alley Paving Dist. 89, $25,000; 12 blocks Alley Paving Dist. 90, $25,000. A. K. Vickery, City Hall, engr.

**Nev., Reno**—Apr. 9 for 573,340 sq.ft. 5 in. and 15,954 sq.ft. 2 in. asphaltic concrete pavement. H. Chism, city engr. Noted Feb. 15.

**Calif., San Diego** — Apr. 9, by A. H. Wright, city clk., paving, guttering and laying sewer in 18th St. between Bway. and Imperial Ave., 169,759 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous base, etc. F. A. Rhodes, city engr.

**Calif., San Francisco** — Apr. 4, by Bd. Pub. Wks., grading, curbing, laying sewers and paving 27th, 28th and 29th Aves. between Ulloa and Vicente Sts., 100,000 sq.ft. concrete and 86,000 sq.ft. asphaltic concrete pavement, etc., for city and San Francisco Co. To exceed $35,000. Noted Sept. 14.

**Ont., Toronto**—Apr. 6, by E. A. James engr., 57 Adelaide St. E. 10 mi. road, waterbound macadam, bituminous macadam, hot mixed paving, stone or tar and oil, for Toronto & York Good Rds. Comn., 57 Adelaide St. E. $200,000.

### BIDS RECEIVED

**N. Y., Albany** — Bd. Contr. & Supply, paving (1) Madison Ave., dressed granite block (2) Albion Ave., macadam, from M. F. Dollard, 36 State St., (1) $349,822 (2) $17,587; J. P. Dugan Co., Cedar Hill, (1) $412,706; P. Mulderry, 5 St. Joseph Terrace, (1) $415,466; H. Domery, (2) $17,274; E. B. Stevenson, 376 Western Ave., (2) $18,158.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Mar. 20, curbing and laying sidewalks, etc., on (1) Crescent St. (2) Hallett St., grading, sidewalk, crosswalk, cinder crosswalk, etc., on (3) Sackett St., grading, curbing and laying sidewalks on (4) Sherwood St. (5) 44th St. (6) 80th St. (7) 156th St., paving (8) 80th St., sheet asphalt on concrete, from E. Block, Woodhaven, (1) $6,859 (2) $9,347 (3) $1,851 (4) $4,386 (5) $9,493 (6) $8,635 (7) $5,192; F. J. Clancy, Corona, (1) $7,135 (2) $10,840 (3) $2,221 (5) $9,175; Peace Bros., Inc., 57 North Laurence St., Flushing, (1) $8,107 (2) $11,691 (3) $2,715 (4) $5,479 (5) $11,470; J. J. O'Brien, Jr., William St., Jamaica, (6) $7,848; Kennedy & Smith, Inc., 93 Amity St., Flushing, (6) $9,220; Welsh Bros. Contg. Co., 32 Queens St., Astoria, (7) $5,221; Tuohey & Upton, Inc., 98 Main St., Flushing, (7) $5,524; Borough Asphalt Co., 1201 Metropolitan Ave., Brooklyn, (8) $17,058; W. P. McDonald Constr. Co., 17 West 42nd St., New York (8) $18,230. Noted Mar. 15.

**N. Y., St. George** — J. A. Lynch, pres. Richmond Boro, Mar. 22, grading and bituminous concrete paving (1) Saterlee St., grading and bituminous macadam paving (2) Livermore Ave., etc., from Cornelius Vanderbilt, 24 Elizabeth St., West New Brighton, (1) $51,122 (2) $6,570; W. P. McDonald Constr. Co., 342 Madison Ave., New York, (1) $52,108; J. Johnson Sons, 455 Bway., West New Brighton, (1) $53,327 (2) $4,681; J. E. Donovan, 2205 Richmond Terrace, Port Richmond, (2) $5,257. Noted Mar. 15.

**Virginia** — State Hy. Comn., Richmond, improving (1) 4.3 mi. concrete road, 18 ft., James City Co. (2) 9.4 mi. concrete, 18 ft., Nansemond Co. (3) 6.5 mi. top soil road, 22 ft., Fluvana and Goochland Counties (4) 6.6 mi. topsoil road, 22 ft., Fluvana Co. (5) 5.5 mi. bituminous macadam road, 16 ft., Buchanon Co. (6) 4.9 mi. bituminous macadam road, 16 ft., Wise Co. (7) 5.8 mi. surface treated macadam road, 16 ft., Tazewell and Russell Counties (8) 1.5 mi. road, 22 ft., Fluvana Co. (9) rein.-con. bridge over Kingsale Swamp near Carrsville, Nansemond Co. (10) bridge over Bird Creek, Goochland Co. (11) 122 ft. rein.-con. bridge over Grassy Creek near Soudan, Mecklenberg Co. (a) regular bid, (b) alternate bid, from H. H. George & Co., Richmond, (street address not available), (1a) $162,827 (2b) $161,507; Allport Constr. Co., Mutual Bldg., Richmond, (1a) $168,154 (1b) $167,807; Overstreet & Nance, Bedford, (1a) $173,816 (1b) $173,221; Ferguson Co., High Point, N. C., (2a) $312,068 (2b) $313,162; Harrison Eng. Constr. Co., Ellicott Sq., Buffalo, N. Y., (2a) $314,356 (2b) $313,162; C. B. Luck & Son, 1212 Brooks Ave., Richmond, (2a) $321,970 (2b) $321,644; Burgess & Atkinson, Scottsville, (3a) $64,783 (3b) $64,163 (8) $15,350 (10) $15,129; Ford & Tuck, Virgilina, (3a) $68,198 (3b) $67,776; Van Doren & Bass, 811 East Franklin St., Richmond, (3a) $74,373 (3b) $73,385 (4a) $30,392 (4b) $30,688; C. H. Oliver, Doswell, (4a) $27,320 (4b) $28,197; Perkins & Barnco, Blackstone, (4a) $30,243 (4b) $28,197 (8) $14,138; Starkweather Constr. Co., Crozet, (5a) $197,391 (5b) $194,497; R. Martin Co., Salem (5a) $224,397 (5b) $233,663; Clintwood Constr. Co., Clintwood, (5a) $242,759 (5b) $253,417; Scott & Trinkle, Norton, (6) $265,655 (7a) $211,314 (7b) $216,360; R. H. Bolling, Norton, (6) $275,525; Warden Constr. Co., Pulaski, (6) $282,957; W. P. Midkiff, Vanhoe, (7a) $198,736 (7b) $200,504; J. S. Lawson, Wythville, (7a) $213,440 (7b) $214,669; F. F. White & Co., Cohasset, (8) $15,283; R. S. Royer, 819 North Elm St., Greensboro, N. C., (9) $6,099; Carpenter & Sanderson, Chester, (9) $6,599; Atlantic Bridge Co., Roanoke, (10) $17,588 (11) $10,614; Pittsburg & Des Moines Bridge Co., Curry Bldg., Pittsburgh, Pa., (10) $18,249; Roanoke Iron & Bridge Co., Roanoke, (11) $10,266. Noted March 1.

**Alabama**—State Hy. Dept., Montgomery, grading and gravel surfacing 23.649 mi. road from Tuscaloosa Co. line to Carrolton via Reform, Pickens Co., from W. M. Thompson & Co., Tuscaloosa, $313,922. Newell Contg. Co., 3828 Ave. A, Birmingham, $320,577, Phillips & Co., Birmingham (street address not available), $329,621; 14 wooden bridges on above road, from E. Pettus, Montgomery, (street address not available), $59,675, Newell Contg. Co., 3828 Ave. A, Birmingham, $60,304, E. L. Batson, Birmingham (street address not available), $63,529. Noted Feb. 22.

**O., Cleveland** — Grading, curbing and paving (1) Corlett Ave., 5,690 lin.ft. stone curb and 4 in. tile drain gutter, 5,100 cu.yd. earth excav., 10,190 sq.yd. asphalt, 10,700 sq.yd. vitr. brick on concrete (2) Central Ave., 13,200 lin.ft. stone curb and 4 in. tile drain gutter, 8,400 sq.yd. vitr. brick, 21,900 sq.yd. stone block, 20,260 sq.yd. asphalt and 20,500 sq.yd. concrete base (3) Lamont, Curtis and Carnegie Aves., 16,200 cu.yd. earth excav., 37,000 sq.yd. asphalt on concrete (4) West 48th St. (5) Maryland Ave. (6) Schade Ave. (7) Beverle Pl. (8) Tyler Court (4 to 8 inclusive) involve 6,560 lin.ft. stone curb and 4 in. tile drain gutter, 4,330 cu.yd. earth excav., 9,336 sq.yd. vitr. brick on concrete (9) West 47th St. (10) Stardale Court (11) Henritze Ave. (9 to 11 inclusive) involve 16,030 sq.yd. vitr. brick, etc., from Enterprise Paving & Constr. Co., 8444 Bway., (1) brick $69,183, asphalt $62,014 (5) $6,806; A. M. Pejsa, Euclid Heights Blvd., (1) asphalt $70,638, brick $73,848; Rieley Bros., The Arcade, (2) asphalt $134,367, stone $188,594 (7) $3,524 (8) $8,730; Bentley Bros., 1836 The Arcade, (2) asphalt $140,504, stone $195,065; Cleveland Trinidad Paving Co., The Arcade, (3) $95,670 (5) $6,980 (11) $7,368; Roehl Bros., West 25th St. and Clark Ave., (4) $28,561 (8) $8,023 (9) $28,553 (10) $2,947 (11) $6,738; Garland Bros., Pavers Exch., Society for Savings Bldg., (4) $31,578; H. G. Herring, Pavers Exch., Society for Savings Bldg., (6) $4,913; Gould & Maybach, 823 East 150th St., (6) $4,917; M. P. Platten, Engineers Bldg., (7) $3,018 (9) $27,756 (10) $2,826. Noted Mar. 8.

**Wis., Mayville**—Paving Horicon, School, Allen and William Sts., (1) 2 course concrete (2) 1 course concrete (3) sheet asphalt (4) asphaltic concrete, from F. Doherty Co., 4419 North Ave., Milwaukee, (1) $67,520 (2) $66,120; R. Rasmussen & Sons Co., foot 7th St., Oshkosh, (3) $70,613 (4) $66,763; Widell Co., Mankato, (1) $71,712 (2) $72,588. Engrs. est. $60,000. Noted Feb. 15.

**Ore., Portland**—Paving Flanders St. from 1st to 12th Sts., from A. D. Kern Railway Exch. Bldg., $54,471; C. G. Randles, 964 Rodney St., $55,627; Municipal Paving Plant, City Hall, $59,184.

**Wash., Seattle**—Grading, concrete walks, etc., 26th Ave. N. E., 18,000 cu.yd. earth excav., 85,000 lin.ft. curb and gutter, 6,850 sq.yd. concrete sidewalk, from D. H. Trap

Streets and Roads (Continued)

hagen, Walker Bldg., $29,527; Paduano & Co., 646 West 51st St., $30,118, Odman Constr. Co., 2534 33rd St., $30,558. Engrs. est. $32,061.

**Calif., Fresno**—Improving (1) Home Ave. (a) 62,728 sq.ft. grading (b) 48,035 sq.ft. asphalt pavement (c) 5,396 sq.ft. concrete gutter (d) 2,895 ft. concrete curb (e) 11,083 ft. concrete sidewalk (2) Woodward Ave. (f) 16,838 ft. grading (g) 14,400 ft. asphalt pavement (h) 1,131 ft. concrete pavement (i) 1,129 ft. concrete gutter (j) 487 ft. concrete curb (k) 2,700 ft. concrete walks (3) Mono and 5th Sts. (l) 13,680 sq. ft. concrete walks (m) 2,826 lin.ft. concrete curb (4) alley in Block 128, (n) 7,600 sq. ft. grading (o) 7,600 sq.ft. concrete pavement, from W. F. Hanrahan, 1361 P St., (1a) $0.058 (1b) $0.222 (1c) $0.33 (1d) $0.65 (1e) $0.23 (2f) $0.058 (2g) $0.227 (2h) $0.28 (2i) $0.33 (2j) $0.65 (2k) $0.23; California Road and Street Impvt. Co., Bank of Italy Bldg., (1a) $0.063 (1b) $0.219 (1c) $0.34 (1d) $0.65 (1e) $0.23 (2f) $0.065 (2g) $0.219 (2h) $0.265 (2i) $0.34 (2j) $0.65 (2k) $0.235; Thompson Bros., G and Divisadero Sts., (1a) $0.055 (1b) $0.219 (1c) $0.35 (1d) $0.65 (1e) $0.23 (2f) $0.055 (2g) $0.219 (2h) $0.25 (2i) $0.35 (2j) $0.65 (2k) $0.23 (3l) $0.205 (3m) $0.53 (4n) $0.06 (4o) $0.23. Noted Feb. 22.

**Calif., Napa**—Grading and concrete paving 3rd St. between School and Jefferson Sts., from R. Errington, Napa, $21,051; L. J. Cohn, 110 Sutter St., San Francisco, $22,457; Lisher & Carillo, Napa, $22,652. Noted Mar. 1.

## CONTRACTS AWARDED

**N. Y., Albion**—Orleans Co. will construct 1¼ mi. road in Yates, 1½ mi. Shelby, 1½ mi. Carleton, 1½ mi. Clarendon, 2½ Barre, 2½ mi. Ridgeway, all bituminous macadam, by day labor under supervision of H. D. Waldo, co. Supt. $143,250.

**N. Y., Auburn**—Cayuga Co. will build 20 mi. bituminous macadam highway, by force account under supervision of J. C. Dayton, 213 North St., co. supt. $135,000.

**N. Y., Ballston Spa.**—Saratoga Co. will construct bituminous macadam highways in towns of Ballston, Charlton, Corinth, Galway, Greenfield, Halfmoon, Milton; graveling highways in towns of Ballston, Clifton Park, Day, Edinburgh, Hadley, Malta, Moreau, Northumberland, Providence, Saratoga, Saratoga Springs, Stillwater and Wilton, by force account under supervision of J. E. Hodgman. $109,277.

**N. Y., Buffalo**—Paving Amsterdam Ave., to Erie Contg. Co., Morgan Bldg., $11,891; Roanoke Ave., to H. P. Burgard Co., 1968 Fillmore Ave., $17,645; Brewster St., to Rock Asphalt Constr. Co., Morgan Bldg., $9,769. All Spec. B asphalt on concrete.

**N. Y., Canton**—St. Lawrence Co. will construct Macomb-Rossie, Black Lake, Madrid-Potsdam, Hammond-Chippewa Bay, Brusher Falls-Helena, Depeyster-Kokomo Corners and Pierpont Rds., bituminous macadam, by day labor. $246,748. N. A. Winson, co. supt.

**N. Y., Carmel**—See "Proposed Work."

**N. Y., Hudson Falls**—Washington Co. will build 15½ mi. gravel on South Argyle-Cassayuna, Centre Cambridge-South Cambridge, Middle Granville-Hampton, Thompson-North Umberland, Hartford-West Granville, Hebron, Centre Jackson, Salem-West Hebron and White Creek-Waits Church Rds., $103,000; 6½ mi. macadam on Easton, Fort Ann, Adamsville-Smith Basin, Putnam Sta., and Whitehall-Sciota Rds., $59,000, by day labor under supervision of O. C. Richards, co. supt. highways.

**N. Y., Ithaca**—Tompkins Co. will construct 13.76 mi. macadam highways in towns of Groton, Dryden, Caroline, Danby, Newfield, Enfield, Ulysses and Ithaca, by day labor under supervision of F. C. Evans, co. supt. $123,840.

**N. Y., New York**—W. J. Flynn, acting pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, laying sidewalks, etc., on Yates Ave., to L. Di Minna, $62,294. Noted Mar. 22.

**N. Y., Rochester**—Bd. Contr. & Supply, pavement repairs for 1923, to Whitmore, Rauber & Vicinus, Rochester, (street address not available), $53,000.

**N. Y., Schenectady**—Schenectady Co. will build 5 mi. bituminous macadam highways in towns of Niskayuna, Rotterdam, Glenville, Princeton and Duanesburg, also 1½ mi. waterbound macadam highway in Mariaville, by day labor under supervision of H. W. Cregier, co. supt. $45,000.

**N. Y., Watkins**—Bd. Supervs. Schuyler Co. will build 18½ mi. bituminous macadam highway, by force account, under supervision of L. E. Kenyon, co. supt. $110,000.

**N. Y., Wampsville**—Madison Co. will improve roads in towns of Brookfield, Cazenovia, De Ruyter, Eaton, Fenner, Georgetown, Hamilton, Lebanon, Lenox, Lincoln, Madison, Nelson, Oneida, Smithfield, Stockbridge and Sullivan, concrete, waterbound macadam and bituminous macadam, by day labor under supervision of F. J. Wagner, co. supt. $148,000.

**Pa., Ambridge**—Grading, paving and curbing Glenwood Ave. from 8th to Duss Aves., to G. B. Patterson Co., Wellsville, O. Engrs. est. $25,000.

**Pa., McKeesport**—Paving 25,450 sq.yd. Cleveland and Woodland Sts., brick on concrete, to S. M. Bowman, 9 Bowman Ave. Ext. $53,000.

**Pa., Phila.**—Paving Clearfield and Luzerne Sts., asphalt, to Eastern Paving Co., Colonial Trust Bldg., $27,607 and $35,010 respectively; Chestnut St., granite block, to Centroni & Mezzola, Lincoln Bldg., $18,876; furnishing crushed stone, to Birdsboro Stone Co., Land Title Bldg., $55,120. Noted Mar. 22.

**Md., Baltimore** — Grading, curbing and paving with sheet asphalt 22,805 sq.yd., Contr. 231-OANA, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $86,692; 22,365 sq.yd. street asphalt on various streets, to American Paving Co., Montebello Ave., $78,559. Noted Mar. 15.

**W. Va., Clarksburg**—Paving with vitr. brick on concrete, and 400 ft. sanitary sewers, in Main St. from 5th to Pike Sts., to T. Pietro, Morgantown, $53,107.

**W. Va., Clarksburg**—Harrison Co., constructing Barnett Rd. and Jacobs Run Rd., to W. F. Allen & Co., Clarksburg, $29,966 and $27,985 respectively; Gusman Rd., to P. S. Hornor Co., Clarksburg, $47,249; Tennille-Marshville Rd., to Salem Bridge & Constr. Co., Salem, $30,945.

**W. Va., Wayne**—Wayne Co., 6½ mi. Tug River Highway, Lincoln Dist., to White & Rich Contg. Co., Williamson, $143,124.

**N. C., Greensboro**—Paving 12 mi. various streets, concrete, sheet asphalt and bituminous concrete, to Murray Constr. Co., Holston Bank Bldg., Knoxville, Tenn., $591,720. Noted Mar. 15.

**N. C., Rockingham**—Grading and paving various streets, to Hedrick Constr. Co., Rockingham, $100,000. Noted March 15.

**S. C., Aiken**—Aiken Co., sand clay surfacing 6.2 mi. State Route 39, to C. E. Teague, Augusta, Ga. (street address not available), $17,914. Noted March 8.

**S. C., Bishopville**—Lee Co., sand clay surfacing 4.2 mi. State Route 34, to Hendrich & Kennedy, Charlotte, N. C. (street address not available), $13,618. Noted March 8.

**Fla., West Palm Beach**—To Keystone Constr. Co., West Palm Beach, paving with waterbound macadam and part penetration surface, Dist. 3, Sects. 1 and 2, $72,543; to Greynolds & Monroe, 120 North Olive St., paving with waterbound macadam and part pentration surface, Dist. 3, Sect. 1, $40,714, grading, oiling, wood curbing and rock paving Bway. in Northwood Addition to West Palm Beach, $20,233, Dist. 3, $20,871.

**Ohio** — Dept. Highways and Pub. Wks., Columbus, grading and paving roads in following counties: **Greene Co., Sect. "J" Columbus-Cincinnati Rd.**, 2.62 mi., waterbound macadam, to J. W. Weeks, 300 Gibbons Arcade, Dayton, $44,486; **Huron Co., Sect. "8" Norwalk-Mansfield Rd.**, 2.504 mi., rein.-con., to Gluss Bros. Hamler, $63,758; **Logan Co., Sects. "B and C-2" Bellefontaine-Marysville Rd.**, 8.832 mi., rein.-con., to Lewis & Copeland, Lima, $271,454; **Mahoning Co., Sect. "A" Salem-Warren Rd.**, 3.1 mi., asphalt macadam, oil, to Creager Bros., Liberty Center, $52,082; **Pike Co., Sect. "Piketon" Columbus-Portsmouth Rd.**, 1.07 mi., brick, to S. Monroe & Sons Co., Portsmouth, $45,872; **Richland Co., Sects. "B-C-D" Mansfield Norwalk Rd.**, 8.94 mi., rein.-con., to Eldorado Paving Co., Eldorado, $407,387; **Fremont Co., Sect. "O-1" Fremont-Castalia Rd.**, 0.15 mi., waterbound macadam, to Modern Constr. Co., Fremont, $3,984; **Wood Co., Sect. "B" Perrysburg-Fostoria Rd.**, 1.549 mi., asphalt macadam, oil, to W. Sausley Co., Ada, $28,000; **Huron Co., Sects. "K & L" Norwalk-Bellevue Rd.**, 6.204 mi., concrete curb and widening, to J. F. Stambaugh, Ada, $58,691; **Huron Co., Sect. "M & N" miles, Norwalk-Bellevue Rd.**, .476 mi., concrete curb and widening, to J. F. Stambaugh, Ada, $4,516; **Huron Co., Sect. "P" Norwalk-Oberlin Rd.**, 4.708 mi., concrete curb and widening, to A. N. Richards & Sons, Willard, $43,075; **Sandusky Co., Sect. "K" Fremont-Perrysburg Rd.**, constructing culverts, to a Shackelhoof, Fremont, $2,345. Noted Mar. 22.

**O., Cincinnati**—Hamilton Co., grading, bridging and paving 8,126 ft. Sharon Ave., 20 ft., 10 in. 1 coarse concrete, also grading bituminous macadam paving 14,780 ft. Ridge Rd., 16 ft., to J. L. Radabaugh, Montgomery, $79,994 and $31,425 respectively. Noted Mar. 22.

**O., Cleveland**—Grading, curbing and paving 15,655 sq.yd. West 48th and West 49th Sts., asphalt, to Cleveland Trinidad Paving Co., The Arcade, $75,516; East 117th St., vitr. brick, to A. M. Pejsa Paving Co., Euclid Heights Blvd., $26,044; West 33rd and West 44th Sts., vitr. brick, to Roehl Bros., West 35th St. and Clark Ave., $14,627; 14,265 sq.yd. Scoville Ave., asphalt, to Bentley Bros., 1836 Euclid Ave., $87,435. Noted Mar. 15.

**O., Columbus**—W. H. Duffy, dir. Pub. Wks., Grant and State Sts., grading, water mains, sewer connections and asphalt paving 1,902 ft. Mt. Vernon Ave., 66 ft., to Knight & Wells, 483 Oak St., $37,939. Noted Mar. 15.

**O., Dayton** — Montgomery Co. paving Philadelphia Rd. from Salem to Dayton Corporation line, 13,500 sq.yd. Kentucky rock asphalt, to W. I. Anderson, R.R. 5 Troy Pike, $66,074.

**Mich., Ann Arbor**—Washtenaw Co. Rd. Comn., grading and gravel surfacing 3.761 mi. road, 9 ft., to A. Folks, Hanover $40,472.

**Mich., Saginaw**—Saginaw Co. Rd. Comn., grading and surfacing 3.021 mi. Dist. Rd. 55, waterbound macadam, to Bennett & Crane, St. Charles, $58,554; 4.308 mi. Dist. Rd. 56, waterbound macadam, bituminous surface, treatment, to A. Jeffrey, Saginaw, $71,397.

**Wis.**—Juneau-Dodge Co. State Road and Bridge Com., Horicon-Juneau-Watertown Rd., Sect. A, to Cast Stone Constr. Co., 318½ South Barstow St., Eau Claire, 34,316 cu.yd. earth excav. $0.80, 1,530 cu.yd. borrow $0.90, 86,306 sq.yd. concrete surfacing $1.26 etc., total $167,029; Watertown-Lebanon Rd., to J. E. Gillespie, 197 Cherry Ave., Oshkosh, 1,500 cu.yd. earth excav. $0.90, 40,780 sq.yd. concrete surfacing $1.78, etc., total $116,606; Columbus-Beaver Dam Rd., to P. C. Kroeck, 1,000 Humbolt Ave., Milwaukee, 3,356 cu.yd. earth excav. $1, 14,956 sq.yd. concrete surfacing $1.55, etc., total $29,577; Fox Lake-Markesan Rd., to P. W. Ryan & Sons, Janesville, 11,816 cu.yd. earth excav. $0.65, 5,512 cu.yd. gravel surfacing $2.05, etc., total $29,174; Le Roy-Oakfield Rd., to J. Gunnison & Sons, 803 East Gorham St., Madison, 9,953 cu.yd. earth excav. $0.68, 2,595 cu.yd. borrow $0.68, 6,387 cu.yd. gravel surfacing $2.10, etc., total $26,276; Reeseville-Hubbleton Rd., to L. Young, Clyman, 18,043 cu.yd. earth excav. $0.62, 1,687 cu. yd. borrow $0.62, 8,554 cu.yd. gravel surfacing $1.85, etc., total $34,509; Theresa-Huilsburg Rd., to A. Mews, Auburndale, 28,700 cu.yd. earth excav. $0.45, 9,191 cu.yd. gravel surfacing $1.92, etc., total $39,030. Noted March 8.

**Ia., Charles City** — **Floyd Co., grading** 6.223 mi. Primary Rd. Project 268, from Rockford north, 26 ft., to L. O. Kimball, Clear Lake, 83,169 cu.yd. excav. $0.24; H. Williams, Mason City, 40,015 ft. 6 in. tile $0.109, 1,200 ft. 8 in. $0.159, 2,950 ft. 10 in. $0.249, and 4,640 ft. 12 in., $0.292.

**Ia., Avoca**—Grading, curbing and paving streets with vitr. brick, alleys with concrete, to E. A. Wickham & Co., 19 Scott St., Council Bluffs, $75,000. Engrs. est. $80,000.

**Ia., Gowrie** — For 20,500 cu.yd. gravel surfacing and 8,000 lin.ft. curb and gutter, to W. Dutton Co., Boone, $24,619. Noted Mar. 8.

**Ia., Orange City**—Sioux Co. gravel surfacing 40.525 mi. Primary Rd. Projects 198, 337 and 336, 55,528 cu.yd. gravel, etc., to Lemars Sand and Gravel Co., Hawarden, furnishing gravel $22,469; C. J. West, Oelwein, hauling and spreading gravel $43,073.

**Ia., Williamsburg**—Brick paving 57,000 sq.yd., to Wright Constr. Co., 211 Flynn Blk., Des Moines, $218,390.

**Minn., Fairmont**—Martin Co. 106,000 cu. yd. excav., Jobs 2302, State Rd. 8 and Job 2504 State Rd. 6, to W. H. Duffey, Fairmont, $37,463; 103 cu.yd. concrete culverts on above, to F. M. Clifford, Guckeen, $2,840. Noted Mar. 8.

**Minn., Faribault** — Rice Co., Job 2301, State Rd. 3, 42,171 cu.yd. earth excav., etc., grading to Nolan Bros., 18 North 2nd St., Minneapolis, $15,597, concrete culverts to Rofdal & Curtis, Medford, $2,198, corrugated metal culverts to Northfield Iron Co., Northfield, $1,388; Job 2302, State Rd. 6, 62,791 cu.yd. earth excav., etc., grading to S. Forsberg, 781 East Magnolia St., St. Paul, $21,167, monolithic culverts to Pederson Bros., Montevideo, $8,645, corrugated metal culverts to Northfield Iron Co., Northfield, $1,928; Job 2303, State

Streets and Roads (Continued)

Rd. 27, 56,720 cu.yd. earth excav., etc., grading to J. Brown, Madison Lake, $19,-232, monolithic culverts to Pederson Bros., Montevideo, $7,985, corrugated metal culverts to Northfield Iron Co., Northfield, $2,456; Job 2304, State Rd. 24, 79,938 cu. yd. earth excav., etc., grading to R. B. Fraser, Faribault, $27,567, monolithic culverts to Rofdal & Curtis, Medford, $2,729, corrugated metal culverts to Northfield Iron Co., Northfield, $2,490. Noted Mar. 1.

**Minn., Manterville**—Dodge Co., (a) Job 2301, State Rd. 4, 26,392 cu.yd. earth and 91 cu.yd. loose rock excav., 153,820 cu.yd. overhaul, 480 lin.ft. culverts, gravel surfacing, load and haul 4,207 cu.yd., 700 cu. yd. ½ to 1 mi. haul, 3,507 cu.yd. over 1 mi., 2,500 cu.yd. miles, one 30 ft. I beam concrete span, 3 monolithic culverts; (b) Job 2302, State Rd. 7, 99,642 cu.yd. excav., 444,-310 cu.yd. overhaul, 1,610 lin.ft. culverts, one 18 ft. and one 20 ft. concrete slab, 8 monolithic culverts, grading on (a) and (b) to Roach Co. Inc., Mantorville, $52,913; graveling on (a) to G. Espe, Hayfield, $3,937; bridges and monolithic culverts on (a) and (b) to H. F. Garbisch, Austin, $14,-273; portable culverts to Concrete Culvert Co., Winona. Noted Mar. 1.

**Minn., Marshall**—Lyon Co. (1) 26 mi. Job 2301, State Rd. 5 (2) 13 mi. Job 2205, State Rd. 6 (3) 2 mi. Job 2206, State Rd. 3, (a) grading (b) portable and (c) monolithic culverts, to B. C. Johnson, Redwood Falls, (1a) $67,492; D. Ryan, Marshall, (2a) $35,824 (3a) $8,177; Marshall Tile Co., Marshall, (1c) $8,312 (2b) and (3b) $4,078; (2c) $2,214; Bladholm Bros., Marshall, (2b) $7,673. Noted Jan. 25.

**Kan., Columbus**—Cherokee Co. concrete paving 4.585 mi. Baxter Spring Rd., Federal Aid Project 142, 18 ft., 48,417 sq.yd. concrete, to Koss Constr. Co., 2818 5th St., Des Moines, Ia. $164,187. Noted Nov. 2.

**Neb., York**—Paving various types, and small sewers in Dist. 21, to Roberts Constr. Co., 404-5 1st Natl. Bldg., Lincoln, vitr. brick on 4 in. base $3.06 per sq.yd., sheet asphalt $2.48, rein.-con. $2.08, asphaltic concrete $2.24, dam concrete $1.90. Engrs. est. $100,000. Noted Jan. 25.

**S. D., Aberdeen** — Grading Warner-Stratford Rd., 100,000 cu.yd. excav. to B. O'Rourke, Roscoe, $0.25 per cu.yd.; grading from Columbia gravel pit to Columbia Rd., 94,000 cu.yd. excav., to Pickus Constr. Co., 2316 East 3rd St., Sioux City, Ia., $0.26 per cu.yd.; grading Sand Hill-Columbia Rd., 94,000 cu.yd. excav., to H. Hanson, Stratford, Ia., $0.28 per cu.yd.

**Mo., Mound City**—To Hawller & Davis, Boonville, paving Railroad, 6th, 5th and 8th Sts., 9,813 sq.yd. 6½ in. concrete $2.75 per sq.yd., excav. $0.70, 6 in. concrete curb $0.75, etc., total $40,411.

**Mo., Tarkio**—To Cook O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, 13,279 sq.yd. 2 coarse rein.-con. paving, $2.75 per sq.yd., 5 in. curb and gutter, $1.35, etc., total $54,347.

**Okla., Sayre**—Grading and paving 7 blocks 3rd and 4th Sts., 8,600 sq.yd. 6 in. concrete, etc., to Pearce Constr. Co., Edmond, $39,742.

**Washington**—State Hy. Comn., Olympia, paving 4.4 mi. Pacific Highway from Kalama to Carrolls, concrete, to F. X. McLellan, Lyon Bldg., Seattle, $155,865; 6.37 mi. from Carrolls to Kelso, concrete, to S. A. Moceri, Thompson Bldg., Seattle, $221,417. Noted Mar. 1.

**Wash., Hoquiam** — Concrete paving 42 blocks Lincoln St. et al., to C. R. Wright, Hoquiam.

**Wash., Wenatchee**—Paving Bridge St. from Kittias to South Wenatchee Ave., 66 ft. 8 in. concrete, to Olympic Constr. Co., 326 Northlake Ave., $80,254.

**Calif., Fresno**—To Thompson Bros., G and Divisadero Sts., improving Peralta Ave. between Lucerne and Wilson and McKinley to University Sts., $21,134; Amador St. between H and Van Ness Sts., $15,777. Noted Mar. 22.

**Calif., Redwood City**—San Mateo Co., improving Santa Cruz-Pescadero Rd., to W. W. Thompson, Redwood City, $39,149. Noted March 15.

**Calif., San Mateo**—Paving various streets 322,500 ft. asphaltic concrete, to Fay Impvt. Co., Phelan Bldg., San Francisco, $122,817. Noted Dec. 28.

**Calif., Watts**—Grading and paving with 5 in. willite portion Main St., to G. R. Curtis, 2440 East 26th St., Los Angeles, $51,295.

## Industrial Works

### PROPOSED WORK

**Mass., Boston**—Suburban Realty Corp., c/o B. S. Brown, engr., 88 Broad St., having plans prepared 3 story, 62 x 122 ft. manufacturing building, rein.-con., 120 Brookline Ave. $100,000.

**Mass., Cambridge**—Ginn & Co., 15 Ashburton Pl., Boston, soon takes bids 5 story, 55 x 317 ft. publishing building, rein.-con. and brick, plain foundation, Munroe and 2nd Sts., here. To exceed $200,000. J. R. Worcester Co., 79 Mills St., Boston, engrs. and archts.

**Mass., Fall River** — Fall River Electric Light Co., 85 North Main St., Fall River, Edison Illuminating Co., 42 Main St., Brockton, and Blackstone Valley Gas & Electric Light Co., 231 Main St., Pawtucket, R. I., had preliminary plans prepared by Stone & Webster, Inc., engrs., Milk St., Boston, power house, on Mt. Hope Bay, and high tension lines between Fall River and Pawtucket, and between Fall River and Brockton. Probable cost $5,500,000.

**Mass., Foxboro**—Foxboro Co., Inc., having plans prepared 4 story, 65 x 160 ft. and 55 x 60 ft. factory addition, brick and steel. $135,000. Engineer and architect not announced.

**Mass., Ware**—Ware Woolen Co. having plans prepared by E. C. Brown, 220 Devonshire St., Boston, 1 and 2 story, 100 x 103 ft. dye house, brick. $75,000.

**Mass., Worcester**—See "Buildings."

**N. Y., Binghamton**—Bailey Rubber Heel Co., Inc., purchased 150 x 180 ft. site, Main and Emma Sts., and plans factory. $80,000,-$100,000. D. F. Rice, Beverly, Mass., mgr.

**N. Y., Conover** (Ithaca, P. O.)—Wayne Lumber Co., 110 West 40th St., New York City, plans saw mill, here. $40,000-$45,000.

**N. Y., Lyons**—Bashford Cider & Vinegar Co. plans concrete and brick plant and storage building incl. several tanks 50,000 to 150,000 gal. capacity. $50,000-$60,000. J. E. Jennings, mgr.

**N. Y., New York**—City, Municipal Bldg., soon takes bids 1 story, 50 x 90 ft., brick, steel and concrete garage addition, plain foundation, 90th St. and East River. $50,-000. Private plans.

**N. Y., South Edwards**—Power Corp., of New York, Watertown, plans development of hydro-electric generating station, 10,000 hp.—10 hour day, Oswegatchie River, here. To exceed $500,000. Address, W. P. Creager, Northern New York Trust Co. Bldg., Watertown, ch. engr.

**N. Y., Syracuse**—Onandaga Pottery Co., Court St., plans addition to plant, incl. 4 kilns. $500,000. B. E. Salisbury, pres.

**N. Y., Utica** — Utica Steam & Mohawk Valley Cotton Mills, 801 State St., plans new concrete, steel and brick factory and storage building. $150,000-$175,000.

**Pa., Johnstown** — Trabold Motors Co., Swank Bldg., plans 1 story, 100 x 250 ft. concrete, brick and steel factory. $150,000. Engineer and architect not selected.

**D. C., Wash.**—Washington Times-Herald, Munsey Bldg., soon lets contract newspaper and office building. $200,000. G. M. McCabe, 96 5th Ave., New York City, archt.

**W. Va., Follansbee**—Sheet Metal Specialty Co. soon takes bids 2 story, 82 x 161 ft. and 42 x 79 ft. warehouse and galvanizing building, brick and concrete. $150,000. R. M. Trimble, Ferguson Bldg., Pittsburgh, Pa., archt.

**N. C., Concord**—Hobarton Mfg. Co. plans cotton weave mill, 100 looms. $400,000. C. A. Cannon, Concord, interested.

**N. C., Greensboro**—P. C. Rucker, pres. Rucker Warehouse Co., takes bids in May, 3 story addition to cotton warehouse, brick. $160,000. Noted March 22.

**N. C., Raleigh** — North Carolina State College of Agriculture and Engineering plans to build and equip addition to textile building. $110,000. W. C. Riddick, Hillsboro Rd., pres.

**N. C., Statesville**—Church—First Presbyterian Church plans church. $200,000. Architect and engineer not selected.

**La., Alexandria** — Texas & Pacific Ry., Texas & Pacific Bldg., Dallas, Tex., plans new shops and terminals here, incl. round house, distribution yards, storage tracks, repair shops, supply house, etc., all fireproof. Facilities will be used jointly by owner and Missouri Pacific R.R. $1,000,000.

**Tenn., Hales Bar**—Tennessee Power Co., Hamilton National Bank Bldg., Chattanooga, plans 30,000 hp. steam plant adjoining hydro-electric station, here, modern construction and design. $1,500,000. B. C. Edgar, vice-pres. and genl. mgr.

**O., Galion**—E. M. Freeze & Co. plans 1 story, brick, steel and concrete foundry and pattern shop. Lockwood, Green & Co., Hanna Bldg., Cleveland, archts. and engrs.

**Mich., Big Rapids**—Turner Crimmins & Waters, Big Rapids, having plans prepared by Lane, Davenport & Peterson, 2320 Dime Bank Bldg., Detroit, 1 story, 150 x 240 ft. brick and steel garage, plain foundation. $100,000.

**Mich., Detroit**—Pere Marquette Ry. Co., Fort St., having plans prepared 1 story engine terminal and round house, brick and steel, plain foundation, 21st St. $1,-200,000. Private plans.

**Mich., Flat Rock**—Ford Motor Co., Highland Park, (Detroit P. O.), having plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 1 story, 28 ft. high, 60 x 360 ft. rein.-con., brick and steel factory, plain foundation.

**Ill., East St. Louis**—Murphysboro Brick Co., Murphysboro, purchased 85 acre tract outside city for complete plant. $250,000. Engineer not announced.

**Wis., Janesville** — Southern Wisconsin Cocoa Cola Co., 617 East Washington Ave., Madison, plans 2 story and basement, 60 x 150 ft., bottling plant, rein.-con., brick and steel, plain foundation. Engineer and architect not selected.

**Wis., Madison**—C. B. Fritz, 138 North Frances St., having plans prepared by Claude & Starck, Badger Annex, 1 story, 50 x 110 ft., woodworking shop and planing mill, brick, rein.-con. and steel, plain foundation. $50,000. Noted Feb. 1.

**Wis., Marshfield**—Madison Cement Stave Silo Co., 14 South Carroll St., Madison, plans rein.-con., brick and steel factory, plain foundation. $40,000. Architect and engineer not selected.

**Wis., Milwaukee**—Shabolt & Boyd Iron Co., 129 West Water St., having preliminary plans prepared by H. J. Esser, 82 Wisconsin St., 1 story, 150 x 225 ft., brick and timber warehouse, plain foundation, Dousman St. $45,000.

**Wis., Rhinelander**—Rhinelander Electric Power Co., having plans prepared by Mead & Seastone, engrs., Journal Bldg., Madison, 1 story, 32 x 50 ft. addition to power house, brick, rein.-con. and steel. $40,000.

**Ia., Marshalltown**—Northwestern Sand & Gravel Co. plans gravel washing plant, brick and concrete. E. H. Lowerbaugh, mgr.

**Ia., Oskaloosa**—Plans 2 story and basement, light and power plant, brick and concrete, also dam in Des Moines River to develop 4,000 hp. $370,000 bonds voted. T. H. Carlin, city clk.

**Minn., Jackson**—Plans municipal heating plant and mains. $79,000. B. H. Strom, clk.

**Minn., Virginia**—Plans to enlarge central heating station and extend mains. $150,000. A. E. Bickford, clk.

**Mo., Sikeston** — International Shoe Co., 1505 Washington St., St. Louis, plans 3 story, 50 x 200 ft., rein.-con. and brick factory, plain foundation, here. $150,000. Engineer and architect not announced.

**Tex., Breckenridge**—Gulf Production Co., Bedell Bldg., San Antonio, had plans prepared 2 refineries here, one 5,000 gal., other 10,000 gal. daily. $75,000 and $250,000 respectively. Private plans.

**Tex., Breckenridge** — B. Blair, Mexia, had plans prepared 10 or 12 buildings here. $200,000. Private plans.

**Tex., Eastland** — Arab Gasoline Corp. had plans prepared gasoline absorption plant, 15,000 gal. daily. $250,000. Private plans.

**Tex., Eastland**—Arkansas Natural Gas Co. had plans prepared gasoline absorption plant, 15,000 gal. daily, along tracks Texas & Pacific R.R. $200,000. Private plans.

**Tex., Eastland**—Trinity Products Co. had plans prepared gasoline absorption plant, 5,000 gal. daily. $150,000. Private plans.

**Tex., Houston**—See "Railways."

**Okla., Ponca City**—Apr. 3, to vote on $80,000 bonds 1 story brick addition to municipal light plant. A. M. Stalnaher, city engr.

**Wash., Hoquiam**—Grays Harbor Veneer Co. plans plant, here. $50,000. Address A. A. Bator, Aberdeen.

**Calif., Alhambra**—Los Angeles Cotton Mills, c/o E. M. Fowler, pres., Metropolitan Bldg., Los Angeles, having plans prepared by M. H. Merrill & Co., archts. and engrs., 50 State St., Boston, Mass., rein.-con. mill buildings, to be constructed in 4 units, first unit includes bleaching, storage and shipping building, boiler house, weaver shed, yard mill, etc., here. To exceed $3,000,000.

**Calif., Los Angeles**—Los Angeles Cotton Mills Co., having plans prepared first unit of cotton factory, incl. 40 x 40 ft. boiler

Industrial Works (Continued)

house, 80 x 80 ft. bleaching building, 40 x 80 ft. cloth building, 45 x 55 ft. storage, 30 x 45 ft. concrete platform, 125 x 175 ft. weaving shed, 75 x 125 ft. yarn mill. Total cost $4,000,000. E. M. Fowler, Pacific Electric Bldg., pres. M. H. Merrill & Co., 50 State St., Boston, Mass., engrs.

**Calif., Oakland** — J. Breuner Co., 15th and Clay Sts., having plans prepared by Reed & Corlett, Oakland Bank of Savings Bldg., 3 story, 160 x 240 ft., rein.-con. or brick warehouse, Adeline and 22nd Sts. $150,000.

**Calif., Oakland** — W. Knowles, archt., Central Bank Bldg., preparing plans 2 story and basement, 30 x 90 ft., rein.-con. warehouse, Bway. and 19th St. $70,000. Owner's name withheld.

**Calif., San Pedro** — Walsh Automatic Coupling Co., c/o Miller & Farrell, archts., Western Mutual Life Bldg., Los Angeles, had plans prepared 1 story, 150 x 180 ft., foundry, wood, steel and corrugated iron, also 1½ ton traveling crane.

**Calif., San Jose**—Guadalupe Lime & Cement Co., 16 California St., San Francisco, having plans prepared cement plant and 2,700 ft. tunnel, here. $250,000. Private plans.

**Calif., San Mateo**—McClenahan Products Co., 112 Kearny St., San Francisco, plans plant. To exceed $40,000.

**Ont., Toronto**—Canadian General Electric Co., 212 King St. W., plans concrete, brick and steel factory to replace one recently damaged by fire. Loss incl. equipment. $250,000. Private plans.

## BIDS DESIRED

**Conn., Bridgeport**—H. J. Platt, 388 Fairfield Ave., taking bids 1 story, 16 ft. high, 107 x 176 ft. garage and service station, brick and steel, plain foundation, Fairfield Ave. $50,000. Private plans.

**N. J., Camden**—H. Boettcher, archt., Neffsville St., Lancaster, Pa., taking bids 3 and 6 story and basement, 65 x 135 ft., rein.-con., brick and steel factory, concrete pile foundation, here, for Armstrong Cork Co., Liberty and Mary Sts., Lancaster, Pa. $500,000.

**N. J., Elizabeth**—Day & Zimmerman, engrs., 6th and Chestnut Sts., Phila., taking bids 1 and 2 story, 165 x 600 ft., brick and steel factory, plain foundation, here, for Amer. Type & Fdry. Co., Communipaw Ave., Jersey City. Noted Dec. 28.

**Pa., Brackenridge** — Atlantic Bottle Co. will build 1 story, 50 x 180 ft. brick factory, here. $300,000. Work will be done by separate contract. Noted Oct. 5.

**Pa., Chester**—C. Wunder, archt., 1415 Locust St., Phila., taking bids 5 story and basement, 101 x 126 ft. storage plant, rein.-con., brick and steel, concrete pile foundation, 5th and Upland Sts., here, for S. Headley Co. $150,000.

**Pa., Duquesne**—Royal Mfg. Co., taking bids 2 and 3 story and basement, 75 x 125 ft., brick and steel factory, 16 North 1st St. $150,000. Private plans.

**Pa., Galeton** — Apr. 7, by Keystone Garage Co., 1 story and basement, 75 x 126 ft. garage, to replace one recently destroyed by fire. $40,000. H. Haskell, Hulett Bldg., Elmira, N. Y., archt.

**Pa., Phila.**—A. B. C. Porch Enclosure Co., 4th and Berks Sts., taking bids 3 story and basement, 60 x 100 ft. brick and steel factory, plain foundation, 4th and Berks St. $150,000. A. E. Dunlap, 7203 Oak Ave., archt.

**Pa., Pittsburgh**—W. E. Snaman, archt., Empire Bldg., will build 3 story and basement, 88 x 200 ft. warehouse, Bluff St., for Frank & Seder Co., 5th and Smithfield Aves. $200,000. Work will be done by separate contracts. Noted Mar. 8.

**S. C., Duncan**—Lockwood, Greene & Co., engrs., Piedmont Bldg., Charlotte, N. C., receiving bids 4 story, 135 x 300 ft. cotton mill, 5 story, 75 x 100 ft. storehouse, 1 and 2 story, 200 x 650 ft. bleachery, power house, pump room building and 300 houses for employees, also 2,000 tons structural steel, machinery and building equipment for above, for Pacific Mills.

**Miss., Cruger**—Apr. 10, by city, electric lighting plant and equipment. W. J. Smith, mayor. Kramer Eng. Co., Magnolia, engrs.

**Ill., Chicago** — Dawson & Eisenberg, archts., 5 North La Salle St., receiving bids 1 story, 82 x 192 ft. garage, rein.-con., brick and steel, Madison St. near Homan Ave. $75,000. Owners name withheld.

**Wis., La Crosse**—O. J. and R. E. Sorenson, archts., 216 Main St., taking bids, opens same about Apr. 3, 1 story, 72 x 200 ft. main building, 1 story, 28 x 40 ft. boiler house, 1 story, 26 x 60 ft. glazing building, 34 x 36 x 52 ft. shaving bin, brick and timber, plain foundations, also 1 story, 60 x 64 ft. frame shed, for Weisse Mfg. Co., Caledonia and Gilleth Sts. $60,000. Noted Mar. 22.

**Ia., Muscatine**—Apr. 18, by Bd. Electric Light Trustees, complete municipal electric light plant and system. B. C. Benham, secy. A. L. Mullergren, 555 Gates Bldg., Kansas City, Mo., engr.; adv. this issue. Noted Nov. 2.

**Neb., Seward**—See "Buildings."

## CONTRACTS AWARDED

**R. I., Newport** — Amer. Cigar Co., 111 5th Ave., New York City, 2 and 3 story, 60 x 140 ft. factory, brick and hollow tile block, Commercial Wharf, here, to Braley & Ohman, Newport. Archts. est. $50,000.

**R. I., Providence** — B. D. Aldrich, 144 Westminster St., 5 story, 70 x 200 ft. garage, service station and sales building, brick and concrete, plain foundation, Orange St., to E. Radding Constr. Co., 144 Westminster St. Archts. est. $200,000.

**Conn., Winsted** — Winsted Hardware Mfg. Co., Lake St., 1 story, 46 x 146 ft. factory addition, brick and timber, plain foundation, to Tracy Bros. Co., 52 Benedict St., Waterbury. Archts. est. $40,000.

**N. Y., Syracuse**—Bendixen Tobacco Co., 1103 Lodi St., 3 story, brick factory, West Belden Ave., to Fellows & McGrath, 415 Fellows Ave., $50,000. Noted Mar. 15.

**N. J., Trenton**—Phila. & Reading R.R., North Warren St., 1 story, 30 x 75 ft., brick freight house, 40 x 218 ft. platforms and concrete driveways, to F. A. Havens Co., 845 North 19th St., Phila., $50,000.

**Pa., Grapeville**—Westmoreland Specialty Co., 1 story, 80 x 100 ft. brick and steel addition to plant, near Jeanette, to H. L. Dixon Co., Rossiyn St., Carnegie. Archts. est. $150,000.

**Pa., Juniata**—Pennsylvania R.R., Broad St. Sta., Phila., 3 story and basement, 64 x 400 ft. rein.-con. and brick store house near Altoona, to West Bros., 635 Trenton Ave., Wilkinsburg. Archts. est. $150,000. Noted Mar. 8.

**Pa., Phila.**—S. F. Whitman & Sons, 415 Race St., 9 story and basement, 80 x 107 ft. rein.-con. and brick plant, concrete pile foundation, 4th and Race Sts., to W. Steele & Sons, 219 North Broad St., $1,000,000.

**Pa., Pittsburgh**—Webster Ave. Garage Co., c/o J. S. Long, archt., Citizens Savings Bank Bldg., 3 story and basement, 54 x 110 ft. garage, Webster Ave., to D. T. Riffle, 1006 Forbes St. Archts. est. $40,000.

**Pa., Primos**—Pennsylvania Lawn Mower Co., 1615 North 23rd St., Phila., 1 story, 110 x 220 ft. rein.-con., brick and steel foundry, plain foundation, to A. R. Roff Constr. Co., 1635 Thompson St., $190,000.

**W. Va., Clarksburg**—Carmichael Motor Co., 2 story and basement, 85 x 126 ft., garage, South 6th St., to Foreman & Putman, Marietta, O. Engrs. est. $65,000.

**W. Va., Huntington**—H. T. Simms and G. Keller, Robson-Prichard Bldg., will build 3 story, 60 x 150 ft. garage, brick, tile, steel and terra cotta, 4th Ave., by day labor. $50,000. L. J. Dean, Foster Bldg., archt.

**W. Va., Newell**—Homer Laughlin China Co., East Liverpool, O., 1 story and part basement, 230 x 800 ft. pottery plant, brick and steel, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, O. Engrs. est. $250,000.

**Ala., Albany**—Cooper-Wells Hosiery Mfg. Co., St. Joseph, Mich., 2 story, 110 x 160 ft., hosiery mill, semi-mill construction, here, to Baxter Bros., Huntsville, $43,000.

**Tenn., Nashville** — Methodist Publishing Bd., Broad St., Mar. 14, general contract publishing plant, brick, concrete and steel, from T. S. Moudy Constr. Co., Chamberlain Bldg., Chattanooga, $180,000. Archts. est. $200,000.

**O., Cincinnati**—A. M. Allen & Co., archts. and engrs., 7016 Euclid Ave., Cleveland, 7 story and basement, 175 x 600 ft., brick and rein.-con. warehouse, Front and Central Aves., here, to Ferro Concrete Constr. Co., 3rd and Elm Sts., for Cincinnati Terminal Warehouse Co. Archts. est. $1,500,000. Noted Feb. 15.

**O., Cleveland**—Forest City Fdry. & Mfg. Co., 1220 Main St., 1 story, 120 x 300 ft. and 40 x 40 ft. brick and steel foundry and cupalo, West 90th St. along tracks of Cleveland, Cincinnati, Chicago & St. Louis R.R., to S. W. Emerson Co., 1900 Euclid Ave. Archts. est. $200,000. Noted Feb. 8.

**O., Cleveland**—National Lamp Wks. of General Electric Co., Nela Park, altering and 3 story, 96 x 325 ft., steel and concrete factory addition, East 152nd St., to Heller-Murray Co., 1153 East 152nd St. Archts. est. $190,000.

**Mich., Jackson**—Amer. Gear & Mfg. Co., Jackson, 2 story, 75 x 125 ft. rein.-con., brick and steel machine shop and heat treat building, to E. Winters, 752 Book Bldg., Detroit. Engrs. est. $50,000.

**Mich., Jackson**—H. Mead, archt., Michigan Trust Bldg., Grand Rapids, 5 story and basement, 88 x 133 ft. and 72 x 133 ft. brick addition to factory, to North Griffin Co., Cottland St. for Michigan Seating Co., Jackson. $110,000. Noted Feb. 15.

**Ill., Chicago** — Broderick Teaming Co., 3221 Shields Ave., 1 story, 100 x 125 ft. garage, rein.-con., brick and steel, 3226 Shields Ave., to Carpenter & Hayes, 109 North Dearborn St. $40,000.

**Ill., Chicago**—E. Neylon, 1637 East 79th St., 1 story, 50 x 200 ft. garage, rein.-con., brick and steel, 78th St. and Stony Island Ave., to J. R. O'Connor, 1637 East 79th St. Archts. est. $40,000.

**Ill., Chicago**—S. Isaacson, 707 Brompton Pl., 2 story, 190 x 280 ft. garage and store, rein.-con., brick and steel, 316-38 Bway., to E. Edlund, 6520 North Artesian Ave. Archts. est. $300,000.

**Ill., Plaines** (Joliet P. O.) — Public Service Co. of Northern Illinois, 72 West Adams St., Chicago, addition to power plant, here, to Bowie, Lydon & Co., Inc., 340 West Harrison St. $200,000.

**Ill., Rockford**—Rockford National Furniture Co., Kishwaukee and 23rd Sts., 2 and 4 story and basement, 60 x 194 ft. warehouse, rein.-con., brick and steel, to R. P. Beckstrom, 516 Mead Bldg. Archts. est. $250,000.

**Wis., Biron** (Wisconsin Rapids, P. O.)— Consolidated Water Power & Paper Co., c/o J. Schnabel, will build 1 story, 67 x 300 ft., rein.-con. and steel factory, plain foundation, by day labor. L. A. DeGuere, Wisconsin Rapids, archt.

**Wis., Franksville**—Frank Pure Food Co., 288 East Water St., Milwaukee, 1 story, 48 x 82 ft. addition to main building, 1 story, 90 x 192 ft. vat house, 1 story, 30 x 40 ft., boiler house, 100 ft. brick stack, 1 story, 28 x 30 ft. pump house, brick and concrete, plain foundations, here, to H. Danischefsky, 1484 Humboldt Ave., Milwaukee. Archts. est. $110,000.

**Wis., La Crosse** — Cameron Motor Car Co., 127 South 6th St., 1 story, 60 x 147 ft., brick and concrete garage, plain foundation, to F. R. Schwalbe & Sons, Rivoli Bldg. Archts. est. $50,000. Noted Feb. 1.

**Wis., Madison**—C. Tantillo, Regent St. and West Washington Ave., 1 story, 40 x 60 ft., brick and rein.-con. garage, to W. A. Kelly & Co., 157 Brettingham Blvd. Archts. est. $40,000.

**Neb., Grand Island**—Teeter-Homan Co., 1 story and basement, 132 x 132 ft., rein.-con. and brick garage, plain foundation, to Geer Co., Grand Island. Engrs. est. $40,000.

**Kan., Augusta**—Schoeb Motor Co. will build 1 story and basement, 125 x 125 ft., rein.-con. and brick garage, by day labor. $40,000. E. Forsblom, 405 Sedgwick Blvd., Wichita, archt.

**Kan., Wichita**—Western Glass Co., 231 North Market St., general contract, 2 story and basement, 73 x 130 ft. warehouse, to G. H. Siedhoff Constr. Co., c/o Broadview Hotel, $55,000.

**Mont., Butte**—Montana Power Co., 40 East Bway., hydro-electric plant and excavating for 2,500 ft. 4 ft. steel pipe line and 9,000 ft. 56 in. wood pipe, to Winston Bros., Columbus. Engrs. est. $1,250,000.

**Mo., St. Louis**—Armature Rewinding Co., 3305 Washington Ave., 2 story, 50 x 124 ft., brick and concrete factory, plain foundation, 605-11 North Leonard Ave., to C. A. Welsch Constr. Co., De Menil Bldg. Archts. est. $50,000.

**Calif., Los Angeles**—Black & White Taxi Co., Alexandria Hotel, 3 story, 100 x 125 ft. garage, rein.-con., Olive and 4th Sts., to Macdonald & Kahn, Loews State Bldg.

**Calif., San Francisco**—Christie Machine Wks., 191 Fremont St., 3 story and basement, warehouse, rein.-con., Howard St. near Beale St., to W. Martin, 180 Jessie St., $40,000.

**Calif., San Francisco**—Rincon Warehouse Co., 268 Lee St., Oakland, 3 story and basement, 80 x 87 ft. warehouse, rein.-con., Federal St., to Vukicevich & Bagge, 180 Jessie St. Engrs. est. $75,000.

# Buildings

## PROPOSED WORK

**Me., Brewer**—High School—School Dept. plans 2 story and basement, brick and steel. $150,000. Engineer and architect not selected.

**Mass., Fall River**—Apartment—J. A. Parker et al., 1656 Rodman St., plans 4 story, 70 x 210 ft., brick, Osborn and Florida Sts. $250,000. Engineer and architect not announced.

**Mass., Methuen** (Lawrence P. O.)—High School—School Dept. plans 3 story, brick, steel and concrete. $450,000. Engineer and architect not announced.

**Mass., Northampton**—Theatre—Goldstein Bros., Broadway Theatre Springfield, having plans prepared by Mowll & Rand, 21 School St., Boston, 2 story, 100 x 125 ft., King St., here. $175,000.

**Mass., Springfield** — Apartment — N. Howard, 145 State St., plans 4 story, Maple St. $300,000. R. B. Whitten, 580 Massachusetts Ave., Cambridge, archt.

**Mass., Springfield** — Hotel — Bridgeway Hotel Co., Bridge St., plans 4 story addition, Bridge St. $175,000. Engineer and architect not selected.

**Mass., Watertown**—High School—Bd. Educ. plans 3 story, brick and steel, Main St. $200,000. McLaughlin & Burr, 88 Tremont St., Boston, archts.

**Mass., Worcester**—Hospital—Worcester-Hahnemann Hospital, 261 Lincoln St., having plans prepared by Fuller & Delano, 44 Front St., and Kendall, Taylor & Co., 93 Federal St., Boston, associated archts., 3 story brick addition, to include power house. $300,000.

**R. I., Edgewood** (Providence P. O.)—Masonic-Harmony Lodge, F. of M., c/o Jackson, Robertson & Adams, archts., 1216 Turks Head Bldg., Providence, having plans prepared 3 story, brick and steel, Norwood Ave. $175,000.

**Conn., Derby**—Theatre—Goldstein Bros. Amusement Co., Broadway Theatre, Springfield, plans 2 story, here. $175,000.

**Conn., Hamden**—Town Hall—Town Hall Com., c/o R. Williams, archt., 185 Church St., New Haven, having plans prepared 2 story, brick and marble, Dixwell Ave. $160,000. Noted Jan. 4.

**Conn., Mansfield**—Hospital, etc.—Mansfield Training School and Hospital, plans hospital $150,000, nurses home $200,000, dormitory $150,000. C. T. LaMoure, supt. Engineer and architect not selected.

**Conn., Meriden**—High School—School Dept. plans 3 story. $750,000. Engineer and architect not selected.

**Conn., New Britain** — Schools — School Com. plans "Smalley" and "East St." schools, probably 2 or 3 story, brick, plain foundation, $185,000 and $150,000 respectively. E. O. Kilbourne, 1600 Stanley St., chn. school accommodations com. Engineer and architect not selected.

**Conn., New Haven**—Club—Elks Club Bldg. Com., c/o D. J. Maloney, chn., 216 Crown St., having sketches made by Brown & Von Beren, 185 Church St., 6 story, 60 x 160 ft., brick and rein.-con., Crown St. $250,000.

**Conn., Norwalk**—Schools—City plans two 2 story and basement, brick. $250,000. C. L. Barton, mayor. Engineer and architect not selected.

**Conn., Rockville**—High School—Rockville School Dept. plans 3 story, brick and steel, Main St. $400,000. F. I. Cooper Corp., 51 Cornhill, Boston, archts.

**Conn., Storrs**—College—Connecticut Agricultural College plans 4 story, $400,000. C. L. Beach, pres. Engineer and architect not selected.

**Conn., West Hartford** (Hartford P. O.)—Temple—Wyllis Lodge 90 Masonic Hall Assn. having plans prepared by W. T. Arnold, Meriden, 2 story and basement, 40 x 70 ft., brick, plain foundation, South Main St. $150,000. C. S. Griswold, 328 North Main St., chn. building com.

**Conn., Winsted** — Hospital — Litchfield County Hospital, Winchester Rd., having plans prepared by W. E. Hunt, 197 Water St., Torrington, three 2 story, 45 x 100 ft. additions. $150,000. Noted Nov. 16.

**N. Y., Binghamton**—Dormitory—Binghamton Practical Bible Training School plans new dormitory. $150,000. J. A. Davis, pres. building com.

**N. Y., Binghamton**—Hotel—Hotel Carlton plans 100 room brick addition. $150,000. Engineer and architect not announced.

**N. Y., Brooklyn**—School—Bd. Educ., 500 Park Ave., New York, had plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., P. S. 214, brick, steel and stone, plain foundation, Forbell and Conduit Aves. $850,000.

**N. Y., Brooklyn**—School—Bd. Educ., 500 Park Ave., New York, soon takes bids brick, steel and stone addition, plain foundation, Elm Pl. and Coney Island Ave., here. $225,000. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr.

**N. Y., Brooklyn**—School—Bd. Educ., 500 Park Ave., New York, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., brick, steel and stone addition, plain foundation, Decatur St. and Lewis Ave., here. $200,000.

**N. Y., Brooklyn**—Schools—Bd. Educ., 500 Park Ave., New York, plans school, Dahill Rd. and West 1st St., $1,000,000; 5 story, Bushwick Ave. between Meserole and Scholes Sts., $1,250,000; school, Stone and New York Aves., $850,000; P. S. 100, West 3rd St., $850,000, all brick, steel and stone, plain foundations, here. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr.

**N. Y., Far Rockaway** — Apartment — Crossways Apartment Corp., c/o M. Hyde, archt. and engr., 114 East 28th St., New York, had plans prepared 4 story, 127 x 186 x 277 ft., brick, steel and stone, plain foundation, Bway. and Mott Ave., here. $600,000.

**N. Y., Jamaica**—School—Bd. Educ., 500 Park Ave., New York, soon takes bids P. S. 116, brick, steel and stone, plain foundation, Wren Pl. and Polhemus Rd., here. $750,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr. Noted Mar. 15.

**N. Y., Lackawanna** (Buffalo P. O.)—Schools—Bd. Educ. plans several new schools. To exceed $500,000. Engineer and architect not selected.

**N. Y., New York**—Apartment—One Hundred Eight East 86th St. Corp., c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., having plans prepared 14 story, 50 x 102 ft., brick, steel and stone, plain foundation, 108 East 86th St. $450,000.

**N. Y., New York**—Apartment—Three Hundred Four West 75th St. Corp., c/o R. T. Lyons, archt. and engr., 342 Madison Ave., having plans prepared 15 story, brick, steel and stone, plain foundation, 304 West 75th St.

**N. Y., New York**—Gymnasium—Fordham University, Fordham Rd., soon takes bids 2 story, cut stone, on campus. $250,000. E. G. Perrot, 233 Bway., archt. and engr. Noted Jan. 25.

**N. Y., New York**—Medical—Academy of Medicine, 27 East 57th St., having preliminary plans prepared by York & Sawyer, archts. and engrs., 50 East 41st St., 12 story, 100 x 100 ft., brick, steel and stone, plain foundation, East 60th St.

**N. Y., New York**—Nurses Home—Mt. Sinai Hospital, 100th St. and 5th Ave., plans brick, steel and stone, plain foundation on plot 100 x 125 ft., 99th St. and 5th Ave. $1,500,000.

**N. Y., New York** — Office — Rogers & Thompson, c/o Starrett & Van Vleck, archts. and engrs., 8 West 40th St., having plans prepared 12 story, steel and stone, plain foundation, Madison Ave. and 39th St.

**N. Y., New York**—Schools—Bd. Educ., 500 Park Ave., soon takes bids brick, steel and stone high school, plain foundation, East 172nd St., $1,915,000; P. S. 70, 105 x 175 ft., brick, steel and stone, plain foundation, Weeks Ave., $1,400,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr. Noted Dec. 7.

**N. Y., New York**—School and Administration—Salvation Army, 120 West 14th St., plans brick, steel and stone, plain foundation, 123 West 13th St. $500,000. R. Best, in charge. Private plans.

**N. Y., Schenectady**—Bank—Mohawk National Bank, State St., purchased adjacent site and plans modern bank. $200,000.

**N. Y., Seneca Falls**—High School—Bd. Educ. plans new concrete, brick and steel. $200,000-$250,000. H. A. Carmer, pres.

**N. J., Trenton**—Y. W. C. A., 138 East Hanover St., having plans prepared by J. O. Hunt, 219 East Hanover St., 4 story building. $600,000. W. F. Thompson, 342 Madison Ave., New York City, engr.

**Pa., Phila.**—Office—C. H. K. Curtis, Independent Sq., soon takes bids 11 story and basement, 230 x 360 ft. rein.-con., brick and steel, caisson foundation, 6th, 7th and Chestnut Sts. $5,000,000. H. Trumbauer, Land Title Bldg., archt.

**Pa., Phila.** — Office — J. T. Windrim, archt., Commonwealth Bldg., soon takes bids 15 story and basement, rein.-con., brick and steel, concrete piles, foundation, 9th and Sansom Sts., for Phila. Electric Co., 10th and Chestnut Sts. $2,000,000.

**Md., Baltimore**—Church and Sunday School—Catonsville Methodist Episcopal Church plans stone or granite Frederick and Melvin Aves. $150,000. V. M. Gieske, Gunther Bldg., archt.

**D. C., Wash.**—College—George Washington University, 2033 G St., N. W., having plans prepared by A. L. Harris, 728 17th St., N. W., college building, 21st and G Sts., N. W. $250,000.

**D. C., Wash.**—Memorial—National Literary Society, International Bldg., conducting campaign to raise $3,000,000 for 3 story, white stone and marble memorial building, probably near Lincoln Memorial.

**D. C., Wash.** — Office — See "Industrial Work."

**D. C., Wash.**—School—Dist. Comrs., 509 Dist. Bldg., plan addition to Tenleytown School. $160,000.

**Va., Fork Union**—Dormitory, etc.—Fork Union Military Academy having plans prepared by Carneal & Johnston, Chamber Commerce Bldg., Richmond, dormitory and armory. $150,000.

**W. Va., Welch**—High School—Bd. Educ. receiving sketches, brick, fireproof construction, Elkhorn Dist. $150,000. Engineer and architect not selected.

**N. C., Asheville**—Hotel—G. Vanderbilt and Battery Park Hotel Companies soon take bids for above named hotels. $1,500,000. W. L. Stoddart, 9 East 40th St., New York City, archt. Noted Mar. 15.

**N. C., Statesville**—Church—First Presbyterian Church plans church and Sunday school. $150,000-$200,000. N. B. Mills, chn. finance com.

**Fla., Ormond Beach**—Hotel—J. P. Vining having plans prepared by Magaziner, Eberhard & Harris, 603 Chestnut St., Phila., 2 story, 150 ft. front, Hollow tile and stucco, on site of Bretton Inn. $250,000.

**Fla., St. Petersburg**—Church—Methodist Church having preliminary plans prepared by Hunt Bros., 329 Walnut St., Chattanooga, Tenn., church. $250,000. S. W. Walker, pastor.

**Fla., Tampa** — Hotel — Adair Realty & Trust Co., Healy Bldg., Atlanta, Ga., financing company which is being organized and plans 15 story, 105 x 140 ft., Florida Ave. and Lafayette St. $800,000.

**Fla., Tavares**—Court House—Lake Co. rejected bids for court house. $250,000. Will readvertise. G. E. Heller, Tavares, engr. Noted Nov. 30.

**Tenn., Cleveland**—Hotel — Cleveland Business Men plan 4 story, 84 x 105 ft., rein.-con. and brick, on Broad St. $150,000.

**Ky., Louisville**—Hotel—Citizens Hotel Co., had plans prepared by B. B. Davis, Norton Bldg., 18 story, 600 room, brick and stone, 19,000 sq.ft. floor space, 5th and Walnut Sts. $3,000,000.

**O., Cleveland** — Bank, Office, etc. — A. Greenwald, Society for Savings Bldg., had plans prepared by N. Petti, archts., Williamson Bldg., 1 and 2 story, 66 x 220 ft., brick and steel, bank, office and garage, Bway. and East 77th St. $150,000.

**O., Cleveland** — Commercial — Callow-Kirby Co., 1900 Euclid Ave., having plans prepared by Watson Eng. Co., 4614 Prospect Ave., 2 story and basement (ultimately 8 story), 66 x 189 ft., brick, steel and concrete, Euclid Ave. near East 18th St. $200,000.

**O., Cleveland**—Commercial—M. B. Scharfeld, Cleveland Discount Bldg., plans 5 story, brick, steel and concrete, rear 732 East Superior Ave. $200,000. Architect's name withheld.

**O., Cleveland**—Office—Cleveland Trust Co., c/o A. A. McCaslin, East 9th St. and Euclid Ave., plans brick, steel and concrete, East 9th St. and Huron Rd. To exceed $150,000. Engineer and architect not selected.

**O., Cleveland**—Office—H. Pennington, Jr., Williamson Bldg., interested in syndicate which plans altering and constructing 2 story, 17 x 104 ft., brick, steel and concrete addition, Euclid Ave. and East 8th St. $300,000. Engineer and architect's name withheld.

**O., Cleveland** — Store — McCrory Stores Corp., 1107 Bway., New York City, plans 4 story and basement, 60 x 110 ft., brick, steel and concrete, 2041 East 4th St., here. $160,000. P. A. Prior, vice pres.

**O., Cleveland**—Store—W. Taylor Sons & Co., 630 Euclid Ave., having plans pre-

Buildings (Continued)

pared by Osborn Eng. Co., archts. and engrs., 2848 Prospect Ave., altering 6 story, 620 Euclid Ave. $500,000.

**O., Dayton**—Church—Westminster Presbyterian Church, 305 Callahan Bank Bldg., plans 80 x 200 ft., stone and steel, 1st and Wilkinson Sts. $500,000. N. Emmons, Jr., chn. building com. Engineer and architect not selected.

**O., Dayton**—Office and Store—Westminster Building Co., c/o S. B. Kelly, 1305 Amer. Bldg., plans 6 to 8 story and basement, 90 x 135 ft., rein.-con. and brick or stone, concrete pile foundation, 3rd and Ludlow Sts. $500,000. Engineer and architect not selected.

**O., Lorain**—Clubhouse—Slovenian National Home Co., c/o W. L. Grills, chn. building com., 554 Bway., having plans prepared by P. Rissman, Lorain, 3 story, 60 x 110 ft., brick, steel and concrete, Pearl St. $200,000. Former bids rejected. Noted June 22.

**O., Warren**—City Hall—Plans election to vote on $200,000 bonds new city hall. G. T. Hecklinger, clk. Engineer and architect not announced.

**Mich., Bad Axe** — High School — Bd. Educ. having plans prepared by S. D. Butterworth, Tussing Bldg., Lansing, 2 story and basement, 134 x 137 ft. rein.-con., brick and steel, plain foundation. $150,000.

**Mich., Detroit**—Hotel—E. C. Pokorny, 849 Edison Ave., having plans prepared by H. S. Angell, 722 Free Press Bldg., 4 story and basement, 46 x 160 ft., brick, steel and stone, plain foundation, Winder St. $150,000.

**Mich., Detroit**—Loft—A. Des Rosiers, engr., 620 McKerchey Bldg., prepared plans 6 story and basement, 40 x 100 ft. rein.-con., brick and steel, plain foundation, Bagley Ave. $150,000. Owners name withheld.

**Mich., Mt. Clemens**—School—Dist. 1 Lake Twp. had plans prepared by B. E. Mills, 74 West Adams Ave., Detroit, 2 story and basement, 95 x 115 ft. brick, plain foundation. $150,000.

**Ill., Chicago**—Apartment—C. Minow, 1124 Independence Blvd., plans 3 story and basement, 170 x 170 ft., rein.-con., brick and steel, Sheridan Rd. and Chase St. $300,000. Loewenberg & Loewenberg, 111 West Monroe St., archts.

**Ill., Rockford**—Apartment—E. Oppenheim, 218 South Main St., plans 3 story and basement, 125 x 260 ft., rein.-con., brick and steel, South 3rd St. $250,000. Eliel & Eliel, 621 Stewart Bldg., archt.

**Ill., Chicago**—Apartment—Owner c/o A. Goldberg, Acorn Sheet Metal Wks., 617 West Jackson Blvd., having plans prepared by A. L. Himelblau, 179 West Washington St., 3 story and basement, 100 x 124 ft., rein.-con., brick and steel. $150,000.

**Ill., Chicago**—Church—D. S. Klafter, archt., 64 West Randolph St., preparing plans 1 story and basement, 75 x 150 ft., rein.-con., brick and steel, 6028 Champlain Ave. $250,000. Owners name withheld.

**Ill., Chicago**—Hotel—D. Jackson c/o J. H. Klafter, archt., 127 North Dearborn St., having plans prepared 3 story and basement, 75 x 100 ft., rein.-con., brick and steel, Winthrop St. near Wilson St. $200,000.

**Ill., Chicago**—Store and Office—Owner c/o C. W. and G. L. Rapp, archts., 190 North State St., plans 6 story, 100 x 142 ft., rein.-con., brick and steel, Rush and Ohio Sts. $500,000.

**Ill., Chicago**—Synagogue—Owner, c/o J. Lasker, 10 South La Salle St., plans 2 story and basement, 60 x 150 ft., rein.-con., brick and steel, Cary St., near Bway. $150,000. Loewenberg & Loewenberg, 111 West Monroe St., archts.

**Ill., Chicago**—Theatre, Store and Office—J. Horwitz, 10 South La Salle St., plans 2 story and basement, 244 x 307 ft., rein.-con., brick and steel, Robey St. and Belle Plaines Ave., $750,000. Denson & Oman, 5 North La Salle St., archts.

**Wis., Janesville**—Theatre—H. T. Jones, 107 North Franklin St., plans 2 story, 80 x 150 ft., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

**Wis., Madison**—Hotel—Hotel Wisconsin Realty Co., c/o W. Schroeder, 86 Michigan St., Milwaukee, having preliminary plans prepared by M. Tullgren & Sons Co., 425 East Water St., Milwaukee, 8 story and basement, brick, tile and concrete, plain foundation, West Washington Ave. and Fairchild St., here. $1,000,000. Noted March 15.

**Wis., Milton**—Library, etc.—Milton College conducting campaign to raise funds for 4 story, library, womens dormitory, athletic field and stadium, rein.-con., brick and steel, plain foundation. $250,000. A. E. Whitford, pres. Engineer and architect not selected.

**Wis., Milwaukee**—Apartment—Franklin Arms Apartment Co., c/o Rosman & Wierdsma, archts., 424 Jefferson St., preparing plans 3 story and basement, 120 x 146 ft., brick and concrete, plain foundation, 32nd and Grand Sts. $150,000.

**Wis., Milwaukee**—Theatre—Office—Saxe Amusement Co., 204 11th St., having plans prepared by C. W. and G. L. Rapp, 190 North State St., Chicago, 4 story and basement, 125 x 150 ft., brick and concrete, plain foundation, Mitchell St. $450,000.

**Wis., Platteville**—Temple—Melody Lodge 2 having plans prepared by E. Tough, Conklin Bldg., Madison, 3 story, 90 x 100 ft., brick, rein.-con. and steel, plain foundation. $150,000.

**Wis., Superior**—Hotel—J. T. Flynn, pres. Amer. Exch. Bank, plans 6 story and basement, 100 x 140 ft., rein.-con., brick, steel and tile, 15th St. and Tower Ave. $250,000. Engineer and architect not announced.

**Ia., Davenport**—School—Defeated $150,000 bond issue for schools. Next election planned. Noted March 1.

**Minn., Minneapolis**—Church—Lowry Hill Congregational Church, c/o L. P. Penningroth, 2105 Newton Ave. S., plans brick and stone, 21st St. and Lake of the Isles Blvd. $150,000. Engineer and architect not announced.

**Minn., Minneapolis**—Office—T. Hamm, 631 East Minnehaha St., St. Paul, plans 6 to 12 story and basement, rein.-con., brick and tile, 6th St. and Hennepin Ave., here. $400,000-$1,000,000. Engineer and architect not announced.

**Kan., Pittsburg**—Temple—Masonic Lodge had plans prepared and soon takes bids 3 story and basement, 100 x 175 ft., rein.-con., brick, stone and steel. Henrici & Lowry, 222 Commerce Bldg., Kansas City, Mo., engrs. T. W. Williamson & Co., 312 Central National Bank Bldg., Topeka, archts. Noted Feb. 1.

**Kan., Topeka**—Hospital—Security Benefit Assn., Security Bldg., having plans prepared by Schmidt, Gardner & Martin, 104 South Michigan Bldg., Chicago, rein.-con., brick and stone. $250,000.

**N. D., Mandan**—Hospital—City and North Dakota Methodist Church having plans prepared by L. Bassindale, 321 Capital Bank Bldg., St. Paul, Minn., 3 story and high basement, rein.-con., brick, stone and tile. $250,000.

**Mo., Chillicothe** — High School — Voted $200,000 bonds and soon takes bids 2 story high school. Noted Mar. 15.

**Mo., St. Louis**—Administration, etc.—Plans 1 story, 63 x 156 ft. brick addition to administration building, $160,000, also 52 x 90 ft. brick kitchen, plain foundation, $60,000, both at Robert Koch Tuberculosis Sanitorium; 3 story, 48 x 122 ft., rein.-con. and brick dormitory, plain foundation, at Scott Farm for Feeble Minded, $120,000.

**Mo., University (St. Louis P. O.)**—Church—Washington-Compton Presbyterian Church, Washington and Compton Aves., rein.-con. and brick, plain foundation, plans equal to 3 stories, Delmar Blvd. and Pennsylvania Ave. $200,000. Engineer and architect not announced.

**Tex., Dallas**—Apartment—J. R. Hill, 824 North Marsalis St., plans 150 x 200 ft., rein.-con. and brick, plain foundation. $160,000. Engineer and architect not announced.

**Tex., Houston**—Office—Binz & Settagest, Binz Bldg., having plans prepared by A. J. Denham, engr., Houston, (street address not available), and Street & Bailey, archts., 2112 Main St., 3 story and basement, concrete and brick, plain foundation, 506 Caroline St. $150,000.

**Tex., Houston**—Store, etc.—Henke & Pillot Milan and Congress Sts., making plans 200 x 208 ft., Main, Milan and McGowan Sts. $150,000. Engineer and architect not announced.

**Idaho, Moscow**—Science Hall—State Bd. Educ., Boise, plans science hall at University of Idaho, here. $150,000. W. J. Hall, comr. Pub. Wks., Boise, in charge.

**Wash., Seattle**—Market—Farmers' Public Market Co., c/o Carter, MacDonald & Miller, agts., 208 Columbia St., plans 2 story and basement, 7th and Westlake Sts. $250,000.

**Ore., Portland**—High School—School Dist. 1, Administration Bldg., takes bids about Apr. 21, 3 story and basement, 160 x 180 ft. rein.-con. and terra cotta. $450,000. Houghtaling & Dougan, Elks Bldg., archts. Noted Jan. 18.

**Calif., Berkeley**—Bank—First Berkeley Branch of Mercantile Trust Co., having plans prepared by W. H. Ratcliff, 1st Natl. Bank Bldg., 1 story, fireproof, terra cotta or stone facing, Shattuck Ave. and Center St. $200,000.

**Calif., Hermosa Beach**—Club—Surf & Sand Club, c/o M. Hunt, archt., Hibernia Bldg., Los Angeles, having plans prepared 4 story, rein.-con. To exceed $200,000.

**Calif., Lemoore**—High School—Lemoore Union High School Dist. to vote on $350,000 bonds new high school. Engineer and architect not selected.

**Calif., Los Angeles**—High School—City soon takes bids rein.-con. and brick, with separate auditorium and shop buildings, San Pedro St. $500,000. E. Bergstrom, Citizens Nat'l. Bank Bldg., archt.

**Calif., Los Angeles**—Office and Loft—M. Harris, c/o H. Hewitt, archt., Van Nuys Bldg., soon takes bids 7 story and basement, 75 x 110 ft., rein.-con. and brick, Main and 11th Sts.

**Calif., Los Angeles**—School—City had plans prepared by E. H. Cline, 1445 South San Pedro St., two 2 story, brick, McCadden St. near Wilshire Blvd. To exceed $275,000.

**Calif., Los Angeles**—Theatre—J. M. Bowen, et al., c/o G. A. Lansburg, archt., Junior Orpheun Bldg., having preliminary plans prepared fireproof, Highland Ave. To exceed $500,000.

**Calif., Monterey**—Hotel—R. Jacks, c/o O'Brien Bros. Inc., archts., 315 Montgomery St., San Francisco, having plans prepared 2 story, rein.-con. or hollow tile. $350,000.

**Calif., Oakland**—Store and Loft—Smith Bros., 472 13th St., plans 3 or more stories, rein.-con., Bway. near 19th St. $150,000. Engineer and architect not selected.

**Calif., Porterville**—Hotel—R. Kendall, Pioneer Hotel, is backing company which plans 4 story, fireproof, Hockett and West Putnam Sts. $150,000. Engineer and architect not selected.

**Calif., San Diego**—Business—J. D. Spreckels, Union Bldg., plans 6 story, Bway. between 6th and 7th Sts.

**Calif., San Francisco**—Apartment—C. R. Bricca, 1330 4th Ave., had plans prepared by C. A. Meussdorffer, Humboldt Bank Bldg., 6 story and basement, rein.-con., Green St. near Jones St. $200,000.

**Calif., San Francisco**—Apartment—J. C. Shipp, pres. Sierra Securities, Inc., et al., 486 California St., having plans prepared by B. G. McDougall, 381 Bush St., 12 story and basement, fireproof, California and Mason Sts. $2,000,000.

**Calif., San Francisco**—Church—Sixth Church of Christ Scientist, c/o W. H. Crim, Jr., archt., 425 Kearny St., had plans prepared 1 story, basement and mezzanine, brick, Clay and Divisadero Sts. $150,000.

**Calif., San Francisco**—Office—Chamberlain & Proctor, Mills Bldg., plans brick or rein.-con., Sutter and Powell Sts. To exceed $150,000. Bakewell & Brown, 251 Kearny St., archts.

**Calif., San Francisco**—Store—A. Aronson, c/o M. I. Schwartz, archt., Nevada Bank Bldg., had plans prepared 5 story and basement, rein.-con., Mission St. near Ecker St. $150,000.

**Calif., San Francisco**—Theatre and Store—S. L. Levin, c/o Reid Bros., archts., 105 Montgomery St., having plans prepared 1 and 2 story, 137 x 282 ft., rein.-con. and brick, Union St. between Buchanan and Webster Sts.

**Calif., Santa Rosa**—High School—Santa Rosa High School Dist. takes bids in about 2 weeks, group rein.-con. and brick buildings, incl. main building, auditorium and gymnasium. $375,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted June 8.

**Calif., Visalia**—Labor Temple—Tulare Co. Building Trades Council, being organized, and plans labor temple, fireproof construction, Locust and Acequia Sts. $175,000.

**Ont., Hamilton** — Business — J. E. Lister, 133 Glenfern Ave., takes bids about May 1, 4 story, 180 x 200 ft. business block, James St. $400,000. Prices wanted on materials.

**Ont., Hamilton**—High School—Bd. Educ. having plans prepared by R. H. Foster, c/o Bd. Educ., and takes bids about April 2, 2 story and basement, brick and stone, Main St. E. $300,000. Prices wanted on materials.

**Ont., Hamilton**—Hospital—Welland Co. Memorial Hospital plans brick addition. $150,000. Engineer and architect not announced.

**Ont., Strathroy**—Nurses' Home—Strathroy Hospital Bd. plans nurses' home, prob-

Buildings (Continued)

ably concrete, brick and steel. $150,000. D. Evans, pres. Engineer and architect not selected.

**Ont., Toronto**—Office—Canada Life Assurance Co., Canada Life Bldg., having plans prepared by Sproatt & Rolph, 36 North St., 100 x 100 ft., concrete, brick and steel, Yonge and Gerrard Sts. $300,000.

**Ont., Toronto**—Store—R. Simpson Co., Ltd., Yonge and Queen Sts., having plans prepared by Horwood & White, Ryrie Bldg., 6 story and basement, 150 x 200 ft. rein.-con., brick, steel and stone addition. $500,000.

## BIDS DESIRED

**Conn., Hartford**—Apartment—Apr. 10, by N. Levitsky, 79 Barbour St., 3 story, 40 x 134 ft., brick, plain foundation, 433 Garden St. $150,000. G. Zunner, 182 High St., archt.

**Conn., Hartford**—Apartment—Apr. 7, by J. Howard, Lancaster Rd., West Hartford, 4 story, 90 x 120 ft., brick, plain foundation, Capitol Ave., here. $200,000. Berenson & Moses, 30 Allyn St., archts. Noted Mar. 22.

**Conn., Hartford**—Apartment—Apr. 10, by S. R. Avseer, 439 Garden St., 3 story, 40 x 140 ft., brick, plain foundation, 429 Garden St. $150,000. G. Zunner, 182 High St., archt.

**Conn., Hartford**—Apartment—Apr. 10, by Rossi Bros. & Montano, Shelston St., 3 story, 60 x 90 ft., brick and stone, plain foundation, Dennison Ave. $150,000. R. A. D'Anino, 647 Main St., archt.

**Conn., Hartford**—Apartment—Apr. 12, by M. Shulman, 207 Sisson Ave., 3 story, 40 x 70 ft., brick, plain foundation, Summer St. $150,000. G. Zunner, 182 High St., archt.

**Conn., New Haven**—High School—Apr. 20, by Bd. Educ., constructinp Augusta Lewis Troup Schools, 3 story, 200 x 200 ft., brick, steel and concrete, Edgewood Ave. $700,000. C. S. Palmer, 144 Whitney Ave., archt.

**N. Y., Hicksville**—Bank—Bank of Long Island will build brick, steel and stone, plain foundation. $250,000. Work will be done by separate contracts under supervision of W. L. Stoddart, archt. and engr., 9 East 40th St., New York. Noted Nov. 16.

**N. Y., Marion**—School—Apr. 18, by Bd. Educ., brick, steel and stone, plain foundation. $200,000. Tooker & Marsh, 101 Park Ave., New York City, archts. and engrs. Noted Feb. 1.

**N. Y., New York**—Apartment—B. L. and W. Constr. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., 6 story, 120 x 220 ft., brick, steel and stone, plain foundation, Ft. Washington Ave. and 174th St. $250,000. Work will be done by separate contracts under supervision of architects.

**N. Y., New York**—School—Apr. 3, by Bd. Educ., 500 Park Ave., P. S. 6, brick, steel and stone, plain foundation, East Tremont Ave. between Bryant and Vyse Aves. $200,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

**Pa., Barnesboro**—School—Apr. 4, by Bd. School Directors, 2 story and basement, 98 x 160 ft. $150,000. G. H. Lloyd, Telegraph Bldg., Harrisburg, archt.

**Pa., Duquesne**—School—Apr. 3, by Bd. Educ., 2 story and basement, 110 x 185 ft., 6th St. $300,000. Carlisle & Sharrer, Jenkins Arcade, Pittsburgh, archts.

**Pa., Erie**—Apr. 5, by Y.W.C.A., 134 East 44th St., New York City, 3 story, brick, steel and stone, plain foundation, West 7th St., here. $200,000. W. F. Thompson, 342 Madison Ave., New York City, archt. and engr. Noted Feb. 15.

**Pa., Juniata** — Church — Presbyterian Church Building Com., and K. O. C. McCracken, pastor, taking bids and opens same about Apr. 15, 1 story and basement, 80 x 95 ft., brick and stone, 7th Ave. and 6th St. $150,000. Hersh & Shollar, 312 Commerce Bldg., Altoona, archts.

**Pa., Phila.** — Office — H. C. Hollinger, Longacre Apartment, taking bids 4 story and basement, 22 x 117 ft., brick, steel and stone, plain foundation, 16th and Walnut Sts. $250,000. C. E. Oelschlager, 1615 Locust St., archt.

**Pa., Pittsburgh**—Bank—April 2, by City Deposit Bank, Penn and Center Aves., and Mowbray & Uffinger, archts., 56 Liberty Ave., New York City, altering and building 3 story and basement, 22 x 150 ft. addition, Penn and Center Aves. $150,000.

**Pa., Woodlawn**—High School—Apr. 2, by J. T. Bell, secy. Bd. Educ. building high school. $439,000.

**Md., Baltimore**—School—Apr. 4, by Bd. Awards, 3 story, 260 x 295 ft., brick, Calhcun, Carey and Baker Sts. Owens & Sisco, Continental Bldg., archts. H. F. Doeleman, 507 North Charles St., engr. Noted Mar. 15.

**N. C., Greenville**—College—Apr. 4, by H. A. Underwood, engr., Commercial Bank Bldg., Raleigh, constructing East Carolina Teachers College, here, for State. $950,000, of which 15% will be alterations, remodeling and fireproofing existing buildings.

**N. C., Swannanoa**—High School—Apr. 4, by Superintendent Buncombe Co. (Asheville), brick high school. $150,000. F. B. Simpson, 110 East Lane St., Raleigh, archt.

**W. Va., Charleston**—Store and Office—Kanawha Investment Co., 8 story and basement, 200 x 200 ft., rein.-con. and brick. $450,000. Work will be done by separate contracts under supervision of Carmichael & Millspaugh, archts., 67 East Long St., Columbus, O. Noted Mar. 15.

**O., Cleveland**—Commercial—E. McGeorge, (owner, archt. and engr.), 1900 Euclid Ave., taking bids and opens same about April 10, 2 story and basement (ultimately 6 story), 80 x 110 ft., brick, steel and concrete, 2902 Euclid Ave. $150,000. A. G. Simon, 1900 Euclid Ave., archt. and engr.

**O., Cleveland**—Hospital—Apr. 6, by city, 2 story and basement, 40 x 250 ft., brick and concrete, Warrensville Farm. $225,000. R. Perkins, dir. Pub. Welfare. A. C. Wolf, Swetland Bldg., archt. Noted Nov. 2.

**O., Medina**—High School—Mar. 31, by Bd. Educ., 2 story, 14 room, brick, steel and concrete. $210,000. T. R. Ridley, Federal Oil and Gas Bldg., Akron, archt. Noted Dec. 7.

**Mich., Battle Creek**—Auditorium—Apr. 3, by Osgood & Osgood, archts., Grand Rapids, auditorium for Masonic Temple Assn.

**Mich., Detroit**—Church—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids 2 story and basement, 58 ft high, 157 x 210 ft. rein.-con., brick and steel, plain foundation, Jefferson Ave., for Jefferson Ave. Presbyterian Church, c/o architects.

**Mich., Detroit**—School and Auditorium—Donaldson & Meier, archts., 1314 Penobscot Bldg., taking bids and opens same about Apr. 5, 2 story and basement, approximately 120 x 220 ft., rein.-con., brick and steel, plain foundation, Seminole and Sylvester Aves., for St. Catherines Parish, c/o architects. $250,000.

**Ill., Chicago**—Apartment—A. L. Klewer, archt., 220 South Michigan Ave., receiving bids 3 story and basement, 118 x 145 ft., rein.-con., brick and steel, Congress St. and Central Park. $180,000. Owners name withheld.

**Ill., Chicago** — Apartment — Rawson & Eisenberg, archts., 5 North La Salle St., receiving bids 3 story and basement, 111 x 132 ft., rein.-con., brick and steel, Hamlin Ave. near Ainslee St. $150,000. Owners name withheld.

**Ill., Chicago**—Apartment—Z. E. Smith, archt., 305 East 55th St., receiving bids 3 story and basement, 140 x 175 ft., rein.-con., brick and steel, 69th and Crandon Sts. $250,000. Owners name withheld.

**Ill., Chicago** — High School — Brust & Philipp, archts., 405 Bway., Milwaukee, Wis., receiving bids 4 story and basement, 220 x 236 ft. brick, plain foundation, here, for St. Joseph's Convent, 575 Layton Blvd., Milwaukee, Wis., $600,000. Noted Jan. 11.

**Ill., Chicago**—Office—Krieg & Hetherington, archts., 105 North Clark St., receiving bids 9 story, 27 x 80 ft., rein.-con., brick and steel, 62 East North Water St., for M. A. Price c/o architects. $175,000.

**Ill., Chicago** — Store and Recreation — Minchin, Spitz & Co., archts., 19 West Jackson Blvd., receiving bids remodeling 3 story, 50 x 187 ft., rein.-con., brick and steel, 336-38 West 63rd St., for Marks & Feinberg c/o architects. $150,000.

**Ill., Forest Park**—Store and Office—D. S. Klafter, archt., 64 West Randolph St., Chicago, receiving bids 2 story and basement, rein.-con., brick and steel, Des Plaines and Madison Sts., here, for Madison Des Plaines Building Corp., c/o Harris Bros., Forest Park. $200,000.

**Ill., West Pullman**—School—Apr. 2 by E. Brielmaier & Sons Co., archts., 432 Bway., Milwaukee, Wis., 2 story and basement, 72 x 115 ft., brick and tile, Parnell Sts., here, for Assumption Catholic Congregation c/o T. Langfort, 544 West 123rd St. $150,000. Noted Mar. 1.

**Wis., Madison** — Hotel — Apr. 1, by M. Tullgren & Sons Co., archts., 425 East Water St., Milwaukee, 7 story and basement, 132 x 144 ft., brick and concrete, plain foundation, West Washington St., here, for Wisconsin Hotel Realty Co., [illegible] Michigan St., Milwaukee. $1,000,000.

**Wis., Milwaukee**—Business—Flemming & Guth, archts., 521 Jackson St., taking bids and open same about Apr. 2, 7 story and basement, 62 x 92 ft., brick and concrete addition, plain and wood pile foundation, for Johnson Service Co., 149 Michigan St. $160,000.

**Wis., Milwaukee**—Exchange—Wisconsin Telephone Co., 418 Bway., taking bids on steel for 120 x 120 ft., brick and steel addition, Bway. $500,000. A. C. Eschweiler, 141 Wisconsin St., archt.

**Neb., Omaha**—Store and Office—Holabird & Roche, archts., 104 South Michigan St., Chicago, receiving bids and opens same about Apr. 1, 4 story, 135 x 260 ft., rein.-con. and brick, 16th and Howard Sts., here, for C. and R. C. Cook, of Chicago, c/o George & Co., 902 City Natl. Bank Bldg. $1,000,000. Noted Jan. 25.

**Neb., Seward**—Dormitory—Apr. 19, by Evangelical Lutheran Seminary, c/o W. F. Gernandt, archt., 701 Omaha Loan and Building Assn. Bldg., Omaha, 2 story and basement, 61 x 169 ft. dormitory and 32 x 32 ft. power plant, rein.-con. and brick, with 110 ft. brick chimney. $125,000 and $25,000 respectively.

**Mo., St. Louis**—Bank—Apr. 10, by Mauran, Russell & Crowell, archts., Chemical Bldg., 5 story, 160 x 269 ft., granite, concrete and steel, concrete pile foundation, Bway., for Federal Reserve Bank of St. Louis, Bway. and Pine St. $2,500,000-$3,000,000. H. H. Morrison, Fullerton Bldg., engr.

**Mo., University** (St. Louis P. O.)—High School—Apr. 5, by W. B. Ittner, archt., 911 Locust St., St. Louis, 2 story, rein.-con. and brick addition. $150,000. Will also take bids shortly for 12 room grade school for which $115,000 bonds were voted. Noted Feb. 8.

**Ariz., Tucson**—High School—Apr. 10, by Bd. Educ., c/o Lyman & Place, archts., 79 North Stone Ave., 2 story, rein.-con., concrete pile foundation. $750,000. Former bids rejected. Noted Mar. 22.

**Calif., Los Angeles** — Apartment and Store—L. L. Jones, archt., Grosse Bldg., receiving bids 4 story and basement, 60 x 140 ft., brick, 5th and Western Aves., for W. G. Terry, 457 South Western Ave.

**Calif., Los Angeles**—Loft—E. Mayberry, archt., Pacific Electric Bldg., receiving bids 13 story and basement, rein.-con., Hill St. near 7th St., for W. W. Paden, c/o architect. To exceed $250,000. Noted Feb. 22.

**Calif., Pasadena** — Church — Johnson, Coate & Kauffman, archts., Union Bank Bldg., Los Angeles, receiving bids concrete and brick, for All Saints Episcopal Church, here. To exceed $150,000. Noted July 27.

## BIDS RECEIVED

**N. Y., Brooklyn**—School—W. H. Gompert, archt., Flatbush Ave. Extension and Concord St., Mar. 21, P. S. 190, Sheffield Ave., from T. A. Clarke Co., 122 Livingston St., $637,300; Blenton Building Corp., 342 Madison Ave., New York, $643,000; G. Dekemple, $659,000. Noted Mar. 8.

**N. Y., New York**—Schools—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, Mar. 21, (1) annex to P. S. 72, East 104th and East 105th Sts. (2) addition to P. S. 121, southerly side of East 193rd St., from Blenton Building Corp., 342 Madison Ave. (1) $616,200; M. F. Kelly Co., Inc., 51 East 42nd St., (1) $656,945 (2) $438,945; G. Dekemple, (1) $669,000 (2) $439,000; T. A. Clarke Co., 122 Livingston St., Brooklyn, (2) $473,300. Noted Mar. 8.

**Pa., Pittsburgh** — School — Bd. Educ., Fulton Bldg., constructing Halls Grove School, from Cuthbert Bros., Bessemer Bldg., $127,300; Pittsburgh Eng. & Constr. Co., 511 Homewood Ave., $129,987; H. Busse Co., Main and Wabash Aves., $130,000.

**Colo., Denver**—Hospital—State Hospital Comn., Boston Bldg., 3 to 5 story, East 8th Ave. and Colorado Blvd., from A. Simpson Jr. Co., Colorado National Bank Bldg., $983,730; C. S. Lambie Co., Tramway Bldg., $1,063,000; Windsor & Lund, 212 Interstate Trust Bldg., $1,039,653. Archts. est. $1,250,000. Noted Jan. 25.

**Calif., Stockton**—Auditorium—City, rein.-con., cement and pre-cast sandstone, memorial auditorium, steel dome, Center, Oak, Fremont and Commercial Sts., general contract from Goulds & John, 436 East Maple St., $519,050; electric work from Butte Electric Mfg. Co., 534 Folsom St., San Francisco, $26,854; heating and ventilating from W. H. Picard, 5656 College Ave., Oakland, $50,642; combination bid for plumbing, heating and electric work from Latourette-

Buildings (Continued)

Fical Co., 907 Front St., Sacramento, $94,500. Noted Feb. 22.

## CONTRACTS AWARDED

**Mass., Adams**—Bank and Office—South Adams Savings Bank, 2 story, 75 x 90 ft., brick, plain foundation, to Hoggson Bros., 485 5th Ave., New York City. Archts. est. $150,000.

**Mass., South Hadley** — Dormitory — Mt. Holyoke College, 4 story, rein.-con. and brick, plain foundation, to Ranger Constr. Co., 20 Bond St., Holyoke, $350,000. Noted Mar. 15.

**Mass., Springfield**—Mercantile—Tarbell Watters Co., 160 Chestnut St., 5 story, 52 x 150 ft., rein.-con. and brick, plain foundation, Eastern Ave., to E. J. Pinney, 374 Main St. $150,000.

**Mass., Ware**—Hospital—Mary Lane Gilbert Hospital, South St., 2 story, 80 x 150 ft., brick and steel, plain foundation, to Cummings Constr. Co., Ware. Archts. est. $250,000.

**Conn., New Haven**—Ward Baking Co., Southern Blvd. and St. Marys St., New York City, 4 story, 83 x 326 ft. bakery, Lombard St., here, to J. W. Ferguson Co., 253 Bway., New York City. Archts. est. $400,000.

**N. Y., Brooklyn** — Apartment — Palace Constr. Co., c/o Shampan & Shampan, archts. and engrs., 188 Montague St., 104 x 121 ft., brick, steel and stone, plain foundation, Eastern Parkway near Schenectady Ave., by day labor. $175,000.

**N. Y., Cortland**—High School—Bd. Educ., general contract brick, stone and steel addition, plain foundation, to Lowman Constr. Co., 312 R.R. Ave., Elmira, $236,000; heating and ventilating work, also plumbing, to Walter P. Dunn Corp., 42 Mechanic St., Newark, N. J., $38,845 and $27,500 respectively. Noted Feb. 22.

**N. Y., Geneva**—High School—Bd. Educ., to Felton Constr. Corp., 1450 Michigan Ave., Buffalo, general contract new high school, $364,064, plumbing and wiring, $42,535. Noted Oct. 26.

**N. Y., New York**—Apartments—Gaines-Roberts Co., c/o J. P. Boyland, archt. and engr., 120 East Fordham Rd., 5 story, 30 x 138 ft., Elliott Pl. and Walton Ave., $260,000, 5 story, 80 x 100 ft., Elliott Pl. near Jerome Ave., $150,000, and two 5 story, Elliott Pl., $215,000, all brick, steel and stone, plain foundations, by day labor.

**N. Y., New York** — Apartment — L. A. Building Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, 80 x 125 ft., brick, steel and stone, plain foundation, Davidson Ave. near Tremont Ave., by day labor $225,000.

**N. Y., New York** — Apartment — Raven Realty Co., c/o G. G. Miller, archt. and engr., 1482 Bway., two 5 story, 50 x 80 ft., brick, steel and stone, plain foundations, College Ave. near 169th St., by day labor. $250,000.

**N. Y., New York**—Apartment—A. J. Schwarzler, c/o C. Schaefer, Jr., archt. and engr. 394 East 150th St, 6 story, 100 x 105 ft, brick, steel and stone, plain foundation, Sedgwick Ave. near 182nd St., by day labor, $225,000.

**N. Y., New York**—Apartment—H. Sonn, c/o Margon & Glaser, archts. and engrs., 2806 3rd Ave., 6 story, 110 x 130 ft., brick, steel and stone, plain foundation, Montgomery Ave. and 175th St., by day labor. $250,000.

**N. Y., New York**—Apartment—A. Wilson, c/o C. Schaefer, archt. and engr., 395 East 150th St., will build 5 story, 65 x 100 ft., brick, steel and stone, plain foundation, 182nd St. and Ryer Ave., by day labor. $150,000.

**N. Y., New York** — Apartment — Vyse Building Corp., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, 90 x 100 ft., brick, steel and stone, plain foundation, Grant Ave. near Jennings St., by day labor. $200,000.

**N. Y., New York**—Office—H. W. Johns-Manville Co., Inc., Madison Ave. and 41st St., 16 story, brick, steel and stone addition, plain foundation, to W. Crawford, 7 East 42nd St. Noted Jan. 11.

**N. Y., Watertown**—Office—Agricultural Insurance Co., Washington St., brick, concrete and steel, to C. T. Wills, Inc., 286 5th Ave., New York, $350,000.

**Pa., Allentown**—School—T. P. Weiner, secy. School Dist., 31 South Penn St., 24 room and gymnasium school, St. Cloud and Walnut Sts., to W. H. Gangwere, Allentown, $314,360. Noted Mar. 8.

**Pa., Merion**—Art Museum—P. Cret, archt., 1524 Chestnut St., Phila., 1 and 2 story, 50 x 156 ft., 48 x 68 ft., 21 x 24 ft. and 52 x 92 ft. rein.-con., brick and steel, plain foundation, to H. E. Baton, 1613 Sansom St., Phila., $500,000.

**Md., Baltimore** — Club House — Park Comrs., Druid Hill Park, 1 story, 42 x 230 ft., 33rd St., to R. B. Mason, 308 West Madison St., $187,780. Noted Mar. 15.

**Md., Baltimore** — Office — Canton Co., Commerce and Water Sts., 4 story, 38 x 82 ft., brick and stone, South and Water Sts., to West Constr. Co., Amer. Bldg.

**Va., Richmond**—Bank and Office—Grace St. Bldg. Corp., 10 story, rein.-con. and steel, 3rd and Grace Sts., to Wise Granite & Constr. Co., Amer National Bank Bldg., $385,000.

**Va., Richmond**—Bank and Office—Office Bldg. Corp., 10 story, rein.-con. and steel, 3rd and Grace Sts., to Wise Granite & Constr. Co., Amer. National Bank Bldg., $375,000.

**Va., Richmond**—Office—State Building Comn., 4 story addition to state office, to J. T. Wilson Co., Inc., Mutual Bldg., $350,000.

**W. Va., Logan**—Store and Office—White & Browning Co., 5 story and basement, 70 x 110 ft., to C. W. McNulty, 208 4th St., Huntington. Archts. est. $180,000. Noted Nov. 2.

**Fla., St. Petersburg** — Hotel — S. Lund & Son, 8 story, 200 room, rein.-con., 1st Ave. and Bay Shore Dr., to G. A. Miller, Stovell-Nelson Bldg., Tampa, cost plus percentage basis. Archts. est. $750,000. Noted Jan. 4.

## SEWERS, NEW CASTLE, PA.

Following are lowest three bids opened by Borough, Mar. 12, for main sewer extension. (A) Frank George, Youngstown; (B) Harris, Andrews, Henderson Co., Youngstown; (C) T. Sheahan, Hagerstown, Md. The unit bids were as follows:

| | A | B | C |
|---|---|---|---|
| 2200 cu.yd. excavation 0-6 ft. | $1.50 | $1.20 | $1.85 |
| 4700 cu.yd. excavation 0-8 ft. | 1.50 | 1.20 | 1.85 |
| 2200 cu.yd. excavation 0-10 ft. | 1.50 | 1.20 | 2.00 |
| 700 cu.yd. excavation 0-12 ft. | 1.50 | 2.00 | 2.00 |
| 300 cu.yd. excavation 0-14 ft. | 1.50 | 2.50 | 2.50 |
| 300 cu.yd. excavation 0-16 ft. | 1.50 | 3.00 | 2.75 |
| 300 cu.yd. excavation 0-18 ft. | 1.50 | 3.50 | 3.50 |
| 100 cu.yd. excavation 0-20 ft. | 1.50 | 5.00 | 4.00 |
| 10 cu.yd. rock excavation | 10.00 | 5.00 | 8.00 |
| 4605 lin.ft. 48 in. reinforced concrete pipe | 8.00 | 6.50 | 8.00 |
| 4605 lin.ft. 48 in. reinforced monolithic concrete pipe | 12.00 | ..... | 8.45 |
| 4604 lin.ft. 48 in. brick pipe | 12.00 | ..... | ..... |
| 720 lin.ft. 10 in. vitrified pipe | 1.00 | 1.30 | 2.00 |
| 850 lin.ft. vitrified pipe | .90 | 1.20 | 1.75 |
| 10—10-in. vitrified pipe specials | 4.00 | 6.00 | 3.00 |
| 10—8-in. vitrified pipe specials | 3.60 | 6.00 | 2.50 |
| 200 lin.ft. standard manholes | 8.00 | 10.00 | 6.50 |
| 21 standard manhole frames and covers | 30.00 | 20.00 | 35.00 |
| Penn. R.R. protection at Baltimore & Ohio R.R. (lump sum) | 1,000.00 | 500.00 | 400.00 |
| Penn. R.R. protection at Lafayette Street (lump sum) | 1,000.00 | 500.00 | 1,000.00 |
| 117 tons cast iron pipe | 82.70 | 85.00 | 95.00 |
| 17 tons cast iron specials | 175.00 | 175.00 | 185.00 |
| 40 cu.yd. additional class A concrete | 20.00 | 30.00 | 18.00 |
| 75 cu.yd. additional class B concrete | 18.00 | 25.00 | 15.00 |
| 15 cu.yd. additional brick masonry | 20.00 | 20.00 | 30.00 |
| 1000 lb. additional steel reinforcement | .05 | .08 | .08 |
| 20M ft. b.m. sheeting and timbering left in place | 20.00 | 20.00 | 20.00 |
| 7M ft. b.m. lumber in foundation | 70.00 | 40.00 | 80.00 |
| 200 lin.ft. piles | 1.50 | 7.00 | 3.00 |
| 40 cu.yd. crushed stone | 5.00 | 3.00 | 5.00 |
| 100 sq.yd. cutting and rebuilding pavement | 5.00 | 5.00 | 4.00 |
| 50 sq.ft. taking up and replacing walk | .30 | .25 | .50 |
| 100 lin.ft. removing and rebuilding curb | 1.00 | 1.00 | 1.00 |
| Ejector station (lump sum) | 2,975.00 | 4,000.00 | 4,200.00 |
| Machinery for ejector station (lump sum) | 3,205.00 | 2,500.00 | 2,800.00 |
| Extended totals omitting 48 in. reinforced concrete pipe, reinforced monolithic concrete pipe and brick pipe | $45,427 | $46,754 | $54,008 |
| Extended totals omitting rein. monolithic concrete and brick pipe | 82,267 | 76,686 | 90,848 |
| Extended totals omitting reinforced concrete and brick pipe | 100,687 | ..... | 92,920 |
| Extended totals omitting rein. concrete and rein. monolithic pipe | 100,687 | ..... | ..... |

## SEWERS, NEOSHA, MO.

Following are lowest three bids opened by city, Feb. 27, for constructing (1) district sewers in Dist. No. 3, (2) public sewers, (A-1) Queal Constr. Co., Herington, Kan., (awarded contract); (B-1) J. P. Collins, Leavenworth, Kan.; (C-1) Chanute Constr. Co., Chanute, Kan.; (A-2) J. P. Collins; (B-2) Burt & Tripp, Hutchinson; (C-3) Queal Constr. Co., (awarded contract). The unit bids were as follows:

I

| | A | B | C |
|---|---|---|---|
| 10,973 lin.ft. trenching, 0-6-ft. | $0.23 | $0.33 | $0.40 |
| 19,317 lin.ft., 6-8-ft. | .30 | .45 | .55 |
| 13,850 lin.ft., 8-10-ft. | .40 | .55 | .70 |
| 4,727 lin.ft., 10-12-ft. | .53 | .65 | 1.00 |
| 2,153 lin.ft., 12-14-ft. | .70 | .75 | 1.10 |
| 258 lin.ft., 14-16-ft. | .90 | .90 | 2.00 |
| 15 lin.ft., 16-18-ft. | 1.80 | 2.00 | 3.00 |
| 6,874 cu.yd. rock excavation | 5.00 | 5.00 | 4.50 |
| M. ft. b.m. old sheeting | 50.00 | 45.00 | 60.00 |
| M. ft. b.m. new sheeting | 60.00 | 55.00 | 65.00 |
| 51,119 lin.ft. furnishing and laying 8-in. vitrified sewer pipe | .45 | .45 | .50 |
| 84 lin.ft. furnishing and laying 8-in. c.i. pipe | 2.50 | 2.50 | 3.00 |
| 116 brick manholes | 90.00 | 70.00 | 85.00 |
| 21 brick drop manholes | 100.00 | 80.00 | 90.00 |
| 6,300 lin.ft. furnishing and laying ¾-in. galvanized iron pipe | .40 | .35 | .30 |
| 42 brick flush tanks | 125.00 | 110.00 | 120.00 |
| Extended totals | $96,060 | $99,125 | $107,829 |

II

| | A | B | C |
|---|---|---|---|
| 8,836 lin.ft. trenching, 0-6-ft. | $0.30 | $0.30 | $0.23 |
| 14,088 lin.ft., 6-8-ft. | .40 | .40 | .30 |
| 7,830 lin.ft., 8-10-ft. | .50 | .50 | .40 |
| 2,494 lin.ft., 10-12-ft. | .60 | .60 | .53 |
| 796 lin.ft., 12-14-ft. | .70 | .80 | .70 |
| 161 lin.ft., 14-16 ft. | .80 | 1.05 | .90 |
| 7 lin.ft., 16-18-ft. | 2.00 | 1.30 | 1.20 |
| 35 lin.ft., 18-20-ft. | 2.50 | 1.60 | 1.80 |
| 927 cu.yd. rock excavation | 4.50 | 6.00 | 5.00 |
| M. ft. b.m. old sheeting | 40.00 | 70.00 | 50.00 |
| M ft. b. m. new sheeting | 50.00 | 70.00 | 60.00 |
| 7,519 lin.ft. furnishing and laying 8-in. vitrified sewer | .40 | .45 | .45 |
| 12,206 lin.ft. furnishing and laying 10-in. vitrified sewer | .55 | .65 | .66 |
| 4,409 lin.ft. furnishing and laying 12-in. vitrified sewer | .75 | .85 | .85 |
| 9,895 lin.ft. furnishing and laying 15-in. vitrified sewer | 1.15 | .95 | 1.30 |
| 60 lin.ft. furnishing and laying 8-in. c.i. pipe | 2.00 | 2.50 | 2.50 |
| 60 lin.ft. furnishing and laying 10-in. c.i. pipe | 2.50 | 3.50 | 4.00 |
| 60 lin.ft. furnishing and laying 12-in. c.i. pipe | 3.25 | 4.00 | 3.25 |
| 48 lin.ft. furnishing and laying 16-in. c.i. pipe | 5.00 | 5.00 | 5.00 |
| 17 brick manholes (drop) | 65.00 | 90.00 | 100.00 |
| 71 brick manholes | 60.00 | 70.00 | 90.00 |
| Extended totals | $49,133 | $51,936 | $53,086 |

Buildings (Continued)

**Fla., Tampa**—Apartment—Shawmut Investment Co., Atlanta, Ga. (street address not available), will build 6 story and basement, 111 x 138 x 180 ft., on block bounded by North A and Lafayette Sts. and Crescent Pl. Work will be done under supervision of Adair & Senter, Healy Bldg., Atlanta, Ga. $500,000.

**O., Greenfield**—School—Bd. Educ., general contract 2 story, rein.-con. and brick, plain foundation, to Murch Bros., Ry. Exch. Bldg., St. Louis, Mo., $221,777.

**O., Lorain** — High Schools — Bd. Educ. general contract 2 story, 26 x 120 ft. brick and metal lumber additions to Hawthorne and Whittier Schools, to J. Kaiser & Bro., Elyria (street address not available), $112,652. Noted Mar. 1.

**O., Osborn**—School—D. S. Lynn, clk. Bath Twp. Consolidated School Dist., 2 story and basement, rein.-con. and brick, plain foundation, Central Ave., to H. R. Blagg Co., 1229 East 3rd St., Dayton, about $210,000. Noted Mar. 15.

**Ind., Ft. Wayne**—Temple—C. R. Weatherhogg, archt., Citizens Trust Bldg., 10 story, 90 x 130 ft., brick, steel and concrete, for Masonic Temple Building Co., to W. H. Sheets, Utility Bldg., Cleveland, O. Archts. est. $1,000,000. Noted Feb. 1.

**Mich., Ann Arbor**—Gymnasium—Athletic Assn. University of Michigan, 2 story, 160 x 350 ft. gymnasium and field house rein.-con., brick and steel, plain foundation, Ferry Field, to H. G. Christman Co., 315 Stevens Bldg., Detroit. Archts. est. $350,000.

**Mich., Detroit**—Nurses Home—Childrens Hospital, Farnsworth Ave., 5 story and part basement, 150 x 225 ft. rein.-con., brick and steel, plain foundation, Farnsworth Ave., to H. G. Christman & Co., 315 Stevens Bldg.

**Ill., Chicago** — Store — See "Industrial Work."

**Ill., Chicago**—Apartment—S. Anderson, 6856 East End Ave., 3 story and basement, 214 x 259 ft., rein.-con., brick and steel, 68th St. and Dorchester Ave., to Turnquist Bros. Constr. Co., 217 East 69th St. Archts. est. $500,000.

**Ill., Chicago**—Apartment—E. A. Wall, 3 story, 88 x 176 ft., rein.-con., brick and steel, Austin Blvd. and Adams St., to E. A. Wall Constr. Co., 2619 Mary St. Archts. est. $150,000.

**Ill., Chicago**—Hotel—W. W. Ahlschlager, archt., 65 East Huron St., 8 story and basement, 200 x 216 ft., rein.-con., brick and steel, Washington and Homan Sts., to Shank & Co., 30 North La Salle St. Archts. est. $2,000,000. Owners name withheld. Noted Nov. 2.

**Wis., Milwaukee**—Convent—St. Joseph's Convent, 23rd and Greenfield Aves., superstructure 4 story, 158 x 180 ft., brick and concrete addition, to E. Steigerwald & Sons, 2303 Galena St. Archts. est. $300,000. Noted Feb. 22.

**Ia., Mason City** — Home — Independent Order Odd Fellows, c/o A. W. Stubbs, supt. Odd Fellows Home, general contract 2 story and basement, rein.-con., brick, tile and stone addition, to Sugarman Constr. Co., 8th and Tuttle Sts., Des Moines, $88,730. Noted Mar. 15.

**Ia., Wapello**—School—Bd. Educ., general contract 2 story and basement, rein.-con., brick, tile and stone, to E. Marxer Co., 516 32nd St., Des Moines. $112,350.

**Minn., Mankato**—School—State Bd. of Control, St. Paul, 3 story and basement, rein.-con., brick and tile, here, general contract to J. B. Nelson Constr. Co., Mankato, $256,980. Noted Jan. 25.

**Kan., Salina**—School Administration—Kansas Wesleyan University, general contract, 4 story and basement, 87 x 204 ft., rein.-con., brick and stone, to Eberhardt Constr. Co., Salina. Archts. est. $350,000.

**Kan., Winfield** — College — Southwestern College, general contract, 3 story and basement, 150 x 170 ft., brick, stone and rein.-con., to G. H. Gassman, Arkansas City, $197,600. Archts. est. $225,000.

**Neb., Omaha**—Home—St. Joseph's Hospital, 10th St. near Castellar Ave., 6 story and basement, 50 x 130 ft., rein.-con. and brick, to A. Kettler, 2316 Fontenelle Blvd., plus percentage basis. Archts. est. $200,000.

**Neb., Omaha**—Store—T. Kilpatrick Co., 1507 Dodge St., 5 story, 44 x 90 ft., rein.-con. and brick, 1507 Dodge St., general contract to P. Kiewits Sons, 908 Omaha Natl. Bank, cost plus percentage basis. Archts. est. $150,000. Noted Mar. 8.

**Wyo., Cheyenne**—Church—Bd. Trustees Presbyterian Church, general contract 2 story, 60 x 150 ft., brick, concrete and stone, to J. McDonald, Denver, Colo. (street address not available), $133,505. Noted June 22.

**Tex., Abilene**—High School—For 3 story and basement, 72 x 195 ft., concrete and brick, plain foundation, general contract to Walsh & Burney, Bedell Bldg., San Antonio, $130,300. Archts. est. $175,000.

**Calif., Crockett** — School — Carquinez Grammar School Dist., 2 story, rein.-con. and brick, excavation, concrete and carpentry work, to Trobock & Cress, 180 Jessie St., San Francisco, $99,700; lath and plastering to W. Makin, 1048 Excelsior St., Oakland, $24,400; brick, hollow tile and terra cotta to Hock & Hoffmeyer, 180 Jessie St., San Francisco, $22,475. Noted Mar. 22.

**Calif., Los Angeles**—Office—Chamber of Commerce, 8 story and basement, rein.-con. and brick, 12th St., to C. J. Kubach Co., 701 Merchants National Bank Bldg., $2,200,000. Noted Mar. 15.

**Calif., Oakland**—Hospital—Supervs. Alameda Co., completing 4 story, rein.-con., Highland Hospital, 14th St., to Globe Indemnity Co., 444 California St., San Francisco, $156,344. Noted March 15.

**Calif., San Francisco**—Apartment—W. L. Growall, Mutual Bank Bldg., 8 story and basement, concrete, Chestnut and Larkin Sts., to Lange & Bergstrom, Sharon Bldg., $260,000. Noted Mar. 15.

# Federal Government Work

### PROPOSED WORK

**R. I., Providence**—Dredging—U. S. Engineer Office plans dredging in Duck Island Harbor, Conn.

**Del., Wilmington**—Quarter-boat—U. S. Engineer, Wilmington, rejected bids 1 steel quarter-boat. Noted Jan. 25.

**D. C., Anacostia (Wash. P. O.)**—Laboratory—Spec. 4824—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans photographic laboratory, here.

**D. C., Wash.** — Repairs — Spec. 4822—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to dock at Naval Reservation Armory.

**D. C., Wash.**—Tunnel, etc.—U. S. Engineer Office, 250 Old Land Office Bldg., plans concrete lined tunnel on condult road. Major Tyler in charge.

**Va., Hampton Roads**—Repairs to Roof—Spec. 4819—Bureau Yards & Docks, Navy Dept., Wash., plans repairs to roof of Bldg. 100 at Naval Operating Base, here.

**Miss., Vicksburg**—Steel Hull—Mississippi River Comn., 3rd Dist., plans to purchase 1 steel hull for motor launch.

**Tenn., Memphis** — Brush and Poles — Mississippi River Comn., 1st and 2nd Dist., Custom House, plans purchasing 65,000 cords brush and poles.

**Ill., Chicago**—Dredging, etc.—U. S. Engineer, 537 South Dearborn St., plans dredging and pier removal in Calumet Harbor and River.

**Wash., Seattle**—Dredging—U. S. Engineer plans dredging Lake Washington Ship Channel.

**Calif., Richmond**—Dredging—U. S. Engineer, Custom House, San Francisco, rejected bids dredging 1,000,000 cu.yd. in harbor, here. Noted Jan. 11.

**H. T., Pearl Harbor**—Piers and Wharf—Spec. 4799—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans piers and wharf at Submarine Base, here. Bids will be opened at local yard.

**China, Pekin**—Addition—Spec. 4797—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans addition to Marine Barracks, here.

### BIDS DESIRED

**Pa., Tobyhanna** — Disposal Plant, Etc.—Apr. 17, at office Constructing Quartermaster, 39 Whitehall St., New York City, sewage disposal plant and sewerage system at Tobyhanna Artillery Target Range, here; adv. this issue

**Ala., Florence**—Head-Gate Track, etc.—Apr. 3 at office U. S. Engineer, furnishing head-gate track, screen track, etc., for power house section of Wilson Dam; adv. this issue. This corrects report in Mar. 8 issue.

**Ala., Florence**—Valves, etc.—Apr. 20, at office U. S. Engineer, 6 sets cylinder valves, etc., for Wilson Dam; adv. this issue. Noted Feb. 8.

**Miss., Greenville**—Levee Work—Apr. 2 by Mississippi Levee Comrs., Greenville, 600,000 cu.yd. levee work. J. S. Allen, ch. engr.

**Tenn., Chattanooga**—Lock Gates—Apr. 13 at office U. S. Engineer, Chattanooga, steel lock gates for Widows Bar Lock, in Tennessee River, 56 mi. below, here, 112,000 lb. structural steel, 18,600 lb. steel castings, etc. Noted Mar. 1.

### BIDS RECEIVED

**Pa., Phila.**—Dredging—U. S. Engineer, 815 Witherspoon Bldg., dredging Delaware River, in Harbor here, 573,000 cu.yd. excav., 299,000 cu.yd. maximum allowable overdepth, (1) dredging material and disposing of same at locality to be selected by contractor and approved by District Engineer (2) placing behind bulkhead constructed by Navy Dept. at Navy Yard, here, from Great Lakes Dredge & Dock Co., 17 Battery Pl., New York City, (2) $0.779; Amer. Dredging Co., Mariner and Merchant Bldg., (1) $0.385 (2) $0.415. Noted Feb. 22.

**Mich., Detroit**—Dredging—U. S. Engineer, dredging Vidal Shoals, St. Marys River, 102,000 cu.yd. sand, gravel and hardpan excav. with possible overdepth of 60,000 cu.yd., from Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, $246,840; Duluth-Superior Dredging Co., foot of 45th Ave. West, Duluth, Minn., $256,740; Dunbar & Sullivan, 2212 Dime Bank Bldg., $257,400. Noted Feb. 22.

### CONTRACTS AWARDED

**N. Y., New York**—Dredging—U. S. Engineer, 2nd Dist., maintenance dredging in Woodbridge Creek, N. J., to Wilms & Quinlivan, 2 Rector St., $7,200.

**N. Y., New York**—Dredging—U. S. Engineer, 710 Army Bldg., 39 Whitehall St., dredging in Newtown Creek, to Great Lakes Dredge & Dock Co., 17 Battery Pl., $109,688. Noted Feb. 15.

**Del., Wilmington**—Barges—U. S. Engineer, Wilmington, 2 barges to Bethlehem Shipbuilding Corp., 25 Bway., New York City. Noted Jan. 25.

**Del., Wilmington**—Stone—U. S. Engineer, Wilmington, furnishing and delivering stone for jetty repairs at mouth of Broadkill River, to F. R. Jones, 1209 King St., $11,880. Noted Jan. 25.

**Ala., Florence**—Barge—U. S. Engineer, 1 steel barge, to Nashville Bridge Co., foot of Shelby Ave., Nashville, Tenn., $6,740. Noted Feb. 15.

**Ala., Florence**—Generator—U. S. Engineer, Florence, 1 electric generator, to Westinghouse Electric & Mfg. Co., Union Bldg., Pittsburgh, Pa., $6,490. Noted Jan. 25.

**Miss., Gulfport**—Stack—Spec. 4781—Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick stack at U. S. Veterans Hospital, here, to H. R. Heinicke, Inc., 221 South New Jersey St., Indianapolis, Ind., $5,700 (200 days). Noted Mar. 1.

**Calif., Richmond**—Piling—U. S. Engineer, Custom House, San Francisco, sheet piling for 2,000 ft. retaining wall in Harbor, here, to Tibbitts Pacific Co., 16 California St., San Francisco, $18,000. Noted Jan. 11.

# Miscellaneous

### PROPOSED WORK

**Memorial Gateway — Boston, Mass.** — Edwin V. Curtis Memorial Assn., c/o A. B. Chapin, 60 State St., had plans prepared by G. Lowell, 12 West St., and soon takes bids memorial gateway on Charles River Esplanade at end of Clarendon St., granite and marble, wood pile and concrete foundation. $40,000-$50,000.

**Road Materials — Boston, Mass.** — Supply Dept. soon takes bids 475,000 gal. 45% and 25,000 gal. 60% asphaltic road oil, 200 tons tar for cold patching, 1,000 tons road asphalt, 250 tons emulsified asphalt and 250 tons asphalt for cold patching. F. P. Rocke, supt.

**Loading House—Buffalo, N. Y.**—Spencer Kellogg & Sons Co., Kellogg Slip, plans loading house. $70,000-$75,000.

**Elimination of Grade Crossing—Conklin, N. Y.**—Delaware, Lackawanna & Western R.R., 90 West St., New York, plans elimination grade crossing at point 1.35 mi. west of here. $100,000. G. J. Ray, Hoboken, N. J., ch. engr.

**Sand, Stone, etc.—Erie, Pa.**—Rejected bids Mar. 16, furnishing sand, limestone, asphalt, cement, etc. Noted Mar. 8.

**Telephone Lines, etc.—Sharon, Pa.**—Bell Telephone Co., South Dock St., plans to expend $250,000 improving lines and plants in and around city, incl. new underground and aerial cable. L. Shaughnessy, supt.

**Street Lighting System—Williamsport, Pa.**—Lycoming-Edison Co., 324 West St. plans street lighting system in Elmira and Mulberry Sts., and along Pennsylvania R.R. $50,000.

**Elimination of Grade Crossings — North Carolina**—State Hy. Comn., Raleigh, had surveys and plans prepared grading and constructing underpass under Norfolk & Western Ry., State Project 714, Ashe Co., under Norfolk Southern Ry. east of Charlotte, State Project 659, Mecklenburg Co., under Norfolk-Southern Ry. near Pinehurst, State Project 570, Moore Co., under Southern Ry. at Canton, State Project 944,

Miscellaneous (Continued)

Haywood Co., under Southern Ry. southeast of Charlotte, State Project 655, Mecklenburg Co., under Southern Ry. east of Statesville, State Project 643, Iredell Co., under Southern Ry., State Project 537, Guilford Co., under Southern Ry. near Clayton, State Project 236, Johnston Co.; grading approaches and constructing rein.-con. bridge over Atlantic Coast Line Ry., near Halifax, State Project 141, Edgecombe and Halifax Counties, over Seaboard Air Line Ry., near Wyatt, State Project 485, Wake Co. Railroads will probably participate in work. C. M. Upham, state highway engr.

**Terminals, etc.—West Palm Beach, Fla.**—Defeated $250,000 bonds for water front terminals, docks, railway line, etc. K. Riddick, city mgr. Noted Feb. 1.

**Grandstand — Detroit, Mich.** — Michigan State Fair Assn., 502 Bowles Bldg., plans concrete and timber addition to grandstand, $100,000. Engineer not selected.

**Pavilion—Detroit, Mich.**—Michigan State Fair Assn., 502 Bowles Bldg., plans 1 and 2 story, rein.-con., brick and steel pavilion, plain foundation, on State Fair Grounds. $150,000. Engineer and architect not selected.

**Athletic Field and Stadium—Milton, Wis.**—See "Buildings."

**Heating Mains—Jackson, Minn.**—See "Industrial Works."

**Pavilion—Minneapolis, Minn.**—Bd. Park Comrs. plans pavilion, 7,500 seating capacity, fan shaped, about 220 x 320 ft., rein.-con., Lake Harriet near Queen Ave. S and 42nd St. $150,000. J. A. Ridgway, City Hall, secy. Engineer and architect not announced.

**Heating Mains — Virginia, Minn.** — See "Industrial Works."

**Lighting System — Santa Ana, Calif.**—Plans lighting system, 75 metal standards. $50,000. W. G. Knox, city engr.

**Power Development—Rimouski, Que.**—Lower St. Lawrence Power Co. having plans prepared and takes bids in May, development water power on Metic River, generator station at Princeville, 80 mi. transmission line from Matane to Princeville. J. A. Brillant, pres.

**Oil Storage Plant—Owen Sound, Ont.**—Imperial Oil Co. Ltd., Imperial Oil Bldg., Toronto, plans oil storage plant here, incl. concrete and steel tanks, pumps, etc. $70,000. Private plans.

**Well Drilling—Renwick, Ont.**—Kaiser & Laurier plan extensive deep well oil drilling. $50,000.

**Cable and Underground Conduit Work—Toronto, Ont.**—Bell Telephone Co., 76 Adelaide St. W., plans to expend $255,000 on outside plant construction in Hudson Exch. area, incl. wire, cable and underground conduit work. F. Kennedy, mgr.

## BIDS DESIRED

**Lumber—Brooklyn, N. Y.**—Apr. 4, by E. Riegelmann, boro pres., Boro Hall, 56,000 ft. lumber, delivered to Ave. U bridge, over Gerritsens Creek.

**Pier—Buffalo, N. Y.**—Apr. 10, by Commissioner Pub. Wks., extending Bird Island pier, 1,100 ft. dock wall on timber cribs and 1,072 ft. 8 ft. 6 in. submerged rein.-con. pipe. To exceed $200,000. G. H. Norton, Municipal Bldg., engr.

**Steam Hoists, etc.—Buffalo, N. Y.**—F. W. Knukenberg, 702 Michigan Ave., taking bids 5 drum steam hoists and stiff leg derrick.

**Metals and Castings—New York, N. Y.**—Apr. 5, by Bd. Purch., Municipal Bldg., metals and castings to Depts. Parks-Bronx, Parks-Manhattan, Water Supply, Plant & Structures, Health, Police and Fire Depts. G. A. Whalen, chn.

**Generator—Watertown, N. Y.**—J. W. Ackerman, city mgr. and P. B. Sutton, city engr., taking bids three 2,250 k.w. generators, switchboard and transformer equipment for new power plant on Delano Island. $75,000-$100,000.

**Heating and Ventilating System—Allentown, Pa.**—April 10, by Bd. Educ., heating and ventilating system in 24 room school, St. Cloud and Walnut Sts., $45,000. Jacoby & Everett, Commonwealth Bldg., engrs.

**Dump Truck, etc.—Erie, Pa.**—Apr. 3, by M. J. Henry, city clk., 4 ton steel dump truck $4,000, heavy tractor $3,600, road machine, $600.

**Dump Truck—Sharon, Pa.**—Apr. 7, by F. S. Williams, clk., 3.5 ton auto dump truck. Cost to exceed $1,000. L. Burnside, city engr.

**Transmission Line—Whitakers, N. C.**—W. T. Hearne, supt., receiving bids 5½ mi. electric transmission line.

**Steam Shovel and Boiler—Key West, Fla.**—Apr. 5, by Monroe Co., 1 cu.yd. and ¾ cu.yd. steam shovels and 30 hp. boiler, delivered to Miami.

**Bituminous Road Binder, etc.—Milwaukee, Wis.**—Apr. 6, at office Central Bd. Purchases, Spec. 1, 400,000 gal. more or less medium-light road surfacing oil, f.o.b. oil stations located on Chicago, Missouri and St. Paul Ry.; Spec. 2, 50,000 gal. more or less light bituminous road surfacing material, Spec. 3, 200,000 gal. more or less bituminous road surfacing material, Spec. 4 (a) 150,000 gal. more or less bituminous road binder (b) 100,000 gal. more or less bituminous road binder, delivered and applied on streets as directed. D. W. Hoan, chn.

**Refrigeration Machinery — Milwaukee, Wis.**—Central Produce Co., c/o J. A. Padway, 603 Caswell Blk., taking bids refrigeration machinery, several ton capacity.

**Steel—Milwaukee, Wis.**—See "Buildings" under Exchange.

**Road Oil—Racine, Wis.**—J. W. Beaugrand, city engr., taking bids 170,000 gal. road oil with option on 30,000 additional gal.

**Tar—Cincinnati, O.**—Apr. 6, by Hamilton Co., 200,000 gal. Grade 1 tar. $20,000. E. A. Gast, Court House, engr.

**Dump Trucks—Cleveland, O.**—Purchasing Department taking bids several garbage dump trucks.

**Mixing Machine—Shaker Heights** (Cleveland P. O.), **O.**—C. A. Palmer, village clk., Lee Rd. and Shaker Blvd., taking bids concrete mixing machine, capacity 7 cu.ft. mixed material.

**Lumber, Piling ,etc.—Primghar, La.**—Apr. 3, by Auditor O'Brien Co., 4 cars standard sawed bridge lumber, 2 cars cypress piling, and 2,900 ft. corrugated culvert metal or concrete pipe. W. L. Anderson, Primghar, engr.

**Culverts—Buffalo, Minn.**—Apr. 10, by Wright Co., corrugated culvert metal and sectional concrete culverts for 1923 season. C. E. Stahl, Buffalo, engr.

**Culverts—St. Cloud, Minn.**—Apr. 11, by N. Thomey, aud. Stearns Co., furnishing 9-60 in. corrugated metal culverts for 1923 season. M. J. Cleveland, St. Cloud, engr.

**Cement Tile—St. Paul, Minn.**—Apr. 2, by H. W. Austin, city purch. agt., 10,000 cement tile, 24 in. square, and 4,000, 18 in. square. G. M. Shepard, city engr.

**Road Graders—Aberdeen, S. D.**—Apr. 4, by L. C. Kranhold, aud. Brown Co., 10 and 12 ft. road graders.

**Culverts, Plows, etc.—Webster, S. D.**—Apr. 3, by R. W. Pitsor, aud. Day Co., 1,450 lin.ft. 12, 15 and 24 in. corrugated metal or concrete culverts, 2 road plows of 185-200 lb., 3 rooter plows, two 6-in. blade machines of 1,000-1,500 lb.

**Graders and Metal Culverts—Lakota, N. D.**—Apr. 5, by H. Lelander, aud. Nelson Co., 3 graders, 120 in. wheel base, 1,300 lb. weight, 8 ft. blades, and metal culverts.

**Road Machinery—Minnewaukon, N. D.**—Apr. 6, by G. A. Gilbertson, aud. Benson Co., 3 graders with 6-10 ft. blades, 1,200 lb. machine with 8 ft. blade preferred.

**Riveted Pipe—Oreville, Calif.**—Apr. 4, by R. A. Leonard, secy. Thermalito Irrigation Dist., 50,400 lin.ft. riveted slip joint pipe with all fittings.

**Steam Shovel and Rock Crusher—San Rafael, Calif.**—Marin Co. taking bids rock crusher and steam shovel. R. E. Graham, co. clk.

## BIDS RECEIVED

**Paving Stone, etc.—Buffalo, N. Y.**—Commissioner Pub. Wks., Municipal Bldg., Mar. 5, various paving materials for year ending Dec. 31, 1923, (1) paving stone (2) dressed block stone (3) crosswalk stone (4) 4 x 16 in. curbing (5) 2,800 lb. coarse sand (6) 3,200 lb. gravel (7) crushed stone, from M. A. Ryan Sandstone Quarries, Albion, (1) $2.50 per sq.yd. (2) $3.10 per sq.yd. (3) $0.45 per sq.ft. (4) $0.50 per lin.ft., all foregoing f.o.b. Buffalo; B. F. Spire, 24 Colonial Circle (1) $10 per ton (2) $11.30 per ton (3) $2 per sq.ft. (4) $1 per lin.ft.; Holloway Sand Co., Inc., Builders Exch., delivered to teams on trucks at company's yard, (5) $0.92 per ton (6) $0.83, delivered to city yard, foot of Court St., (5) $1.32 (6) $1.22, delivered by truck to various zones in city, 1st zone (5) $1.32 (6) $1.22, 2nd zone (5) $1.47 (6) $1.37, 3rd zone (5) $1.62 (6) $1.52, 4th zone (5) $1.77 (6) $1.67, 5th zone (5) $1.91 (6) $1.81; Buffalo Crushed Stone Co., Ellicott Sq., (7) 1,000 cu.yd. at city yard $2.60, 2,000 cu. yd. at Macadam St. $2.20, 1,000 cu.yd. at yard of contractor $1.50 and 250 cu.yd. on any street $2.50. Noted Mar. 1.

**Asphalt Binder—New York, N. Y.**—Bd. Purch., Municipal Bldg., Mar. 20, asphalt binder to Dept. Parks-Bronx, from C. D. Beckwith, 2875 Bway., $1,478. Noted Mar. 15.

**Asphalt Wearing Sand—New York, N. Y.**—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Mar. 20, 4,000 cu.yd. asphaltic wearing sand, from C. W. Crane, 17 Battery Pl., $4,720. Noted Mar. 15.

**Steel Frame—New Orleans, La.**—Bd. Port Comrs., New Court Bldg., steel frame for Poland St. wharf, (a) furnishing and erecting 1,685,500 lb. structural (b) 71,300 lb. steel for adjoining elevator shaft (c) painting 1,756,800 lb. steel, from Virginia Bridge & Iron Co., Whitney Bldg., (a) $85,876 (b) $3,722 (c) $1,511 (180 days); Nashville Bridge Co., Shelby Ave., Nashville, Tenn., (a) $90,007 (b) $3,878 (c) $52,704 (240 days); Converse Bridge Co., Anderson and Berkeley Sts., Chattanooga, Tenn., (a) $91,860 (b) $3,886 (c) $2,635. Noted Mar. 8.

**Lighting System—St. Paul, Minn.**—City, Mar. 19, installing two hundred and ten 400 candle-power single light posts, Selby Ave. from Summit to Lexington Ave., and in Western Ave. from Laurel to Marshall Aves., from Hubbard Electric Light Co., 368 Wabasha St., $39,100; Donovan Constr. Co., 417 Commerce Bldg., $40,303 and $41,910; Commonwealth Electric Co., 132 East 6th St., $44,843. Noted Mar. 15.

**Road Oil — St. Paul, Minn.** — H. W. Austin, city purch. agt., Mar. 19, 700,000 gal. road oil for 1923 season (a) Specification "AA" (b) Specification "B," from White Eagle Oil and Refining Co., Federal Reserve Bank Bldg., Kansas City, Mo., (a) $0.065 (b) $0.065; Minnesota Road Equipment Co., Plymouth Bldg., Minneapolis (a) $0.0653 (b) $0.0675; Camden Petroleum Co., 208 South La Salle St., Chicago (a) $0.077 (b) $0.077. Noted Mar. 15.

## CONTRACTS AWARDED

**Mowers and Tractors—New York, N. Y.**—Bd. Purch., Municipal Bldg., mowers and tractors, to Dept. Parks-Bronx, to J. S. Woodhouse, 191 Water St., $3,405. Noted Mar. 8.

**Paving Blocks—New York, N. Y.**—Bd. Purch., Municipal Bldg., creosoted wood paving blocks, for Dept. Plant & Structures, to Amer. Creosoting Co., 17 Battery Pl., $22,415. Noted Mar. 22.

**Road Oil—Syracuse, N. Y.**—F. X. Wood, purch. agt. Onondago Co., 50,000 gal. road oil with option 125,000 gal., delivered in tank car, to Barrett Co., 36th St., Phila., $0.09 per gal.

**Swimming Pool—Trenton, N. J.**—Hildinger-Bishop Amusement Co., Arcade Bldg., 200 x 310 ft. swimming pool, 2,200 gal. capacity, in Woodlawn Park, to Turek Constr. Co., 40 Park Pl., Newark, $150,000.

**Crushed Stone—Phila., Pa.**—See "Streets and Roads."

**Cement—Detroit, Mich.**—Dept. Pub. Wks., City Hall, 75,000 bbl. cement, f.o.b. Detroit, to Wyandotte Portland Cement Co., 1325 Ford Bldg., $2.77 per bbl. (less $0.10 for each returned sack).

**Gas Reservoir—Duluth, Minn.**—Duluth Water and Light Dept., 1,000,000 cu.ft. gas reservoir, 127 ft. high, steel, foot of 47th Ave. E., to Stacy Bros. Gas Constr. Co., 5535 Carthage Pike, Elmwood, Cincinnati, O., $127,400. Noted Feb. 8.

**Fences—Wyoming**—See "Railways."

**Pipe Line—Butte, Mont.**—See "Industrial Works."

**Grain Elevator—St. Louis, Mo.**—Missouri Pacific Ry., Ry. Exch. Bldg., 130 x 309 ft., grain elevator, 226 ft. high, rein.-con. and steel, concrete pile foundation, 2,000,000 bu. capacity, containing eighty 16 x 112 ft. circular bins also loading dock for barges and storage tracks for 250 cars, along Mississippi River at Primm St., to Folwell-Ahlskog Co., 323 North Michigan Ave., Chicago; 37,500 bbl. cement, to Alpha Portland Cement Co., St. Louis (street address not available); 1,050 tons reinforcing, to Laclede Steel Co., Arcade Bldg. Archts. est. $2,000,000.

**Hydro-Electric Equipment — Spokane, Wash.**—Washington Water Power Co., 825 Trent St., completing Long Lake Hydro-Electric plant, last unit, 22,500 hp., incl. turbine, 4,000 volt 3 phase generator, switch board transformer connections and penstock, contracts as follows: hydraulic machinery, to W. Cramp & Sons Ship and Engine Building Co., Richmond and Norris Sts., Phila.; electrical equipment, to General Electric Co., River Rd., Schenectady, N. Y.; penstock, to Williamette Iron & Steel Wks., Front and Nicholai Sts., Portland, Ore.

**Asphalt—Ottawa, Ont.**—Bulk refined asphalt in tank cars to Imperial Oil Co. Ltd., 918 St. Patrick St., Montreal, Que., $20 per ton; in packages to U. S. Asphalt Refining Co., 90 West St., New York City, $24.65 per ton.

# SEARCHLIGHT SECTION

## OFFICIAL PROPOSALS

*Copy:* Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

**Rate:**
**40 Cents a Line an Insertion**

*Plans and Specifications* for inspection by assistant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

### OFFICIAL PROPOSALS

Bids: April 3.

### Highway Work

Albany, N. Y.

State Commission of Highways, Albany, N. Y.—Pursuant to Chapter 30, Laws of 1909, and amendments thereto, sealed proposals will be received by the undersigned at No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., on Tuesday, the third day of April, 1923, for the furnishing and delivering bituminous material "A" f.o.b. railroad cars at destination for use by the State Highway Commission, in the maintenance and repair of improved state and county highways in all of the counties of the State, unless otherwise specified, for the following contracts:

B. M. Contract No. 1, Bituminous Material "A"—Cut Back for use in Divisions Nos. 1 & 5.

B. M. Contract No. 2, Bituminous Material "A"—Cut Back for use in Divisions Nos. 2, 3 & 4.

B. M. Contract No. 3, Bituminous Material "A"—Cut Back for use in Divisions Nos. 6, 7, 8 & 9.

Proposals will be for furnishing the specified material at any railroad delivery point within the divisions named in the proposal.

Table showing approximate quantities and anticipated railroad delivery points, specifications and proposals may be obtained at the office of the State Commission of Highways at Albany, N. Y.

Special attention of bidders is called to "General Information for Bidders" in the proposal, specifications and contract agreement. Proposal for each contract must be submitted in a separate sealed envelope with the name and number of the contract plainly endorsed on the outside of the envelope. Each proposal must be accompanied by cash, draft of certified check payable to the order of the State Commission of Highways for an amount equal to at least 3 per cent of the amount of the proposal. The retention and disposal of such cash, draft or check by the State Commission of Highways shall conform with Subdivision 3, Section 130 of the Highway Law, as amended by Chapter 623, Laws of 1919.

The successful bidder will be required to execute the contract and comply in all respects with Section 130 of the Highway Law as amended by Chapter 623.

The right is reserved to reject any or all bids.

FRED'K STUART GREENE
Commissioner

W. A. PATTON, Secretary.

---

Bids: April 26.

### Water Tube Boilers

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock noon, Thursday, April 26th, 1923, for furnishing 1,500-1,800 hp. Water Tube Boilers.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

GEO. G. EARL,
General Superintendent.

A. G. MOFFAT,
Secretary.

### OFFICIAL PROPOSALS

Bids: April 11

### Farmingdale-Manasquan Road

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the reconstruction of the Farmingdale-Manasquan Road, No. 34, (Section 1), with a reinforced concrete pavement for a distance of 1.91 miles and opened and read in public at the rooms of said board, Court House, Freehold, New Jersey on Wednesday, April 11th, at 11:00 a.m.

Drawings and specifications for the proposed work, prepared by George D. Cooper, Engineer, have been filed in the office of said Engineer at 60 Broad Street, Red Bank, New Jersey, and may be inspected by prospective bidders during business hours. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the Engineer.

Plans and specifications will be furnished to prospective bidders upon payment of ten dollors ($10.00), which amount will be refunded upon the return of plans and specifications before the time specified for the opening of bids.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth and must be accompanied by a certified check for a sum not less than ten (10) per cent of the amount bid on the work, payable to the order of the County Treasurer and a surety company certificate that said surety company will provide the bidder with the required bond, and must be delivered at the place and before the hour above named.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the County so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BRYANT B. NEWCOMB,
Director.

Attest:
CHAS. E. COLE, Clerk.
Freehold, N. J. Feb. 7th, 1923.

---

Bids: April 3.

### Highway Work

Harrisburg, Pa.

Pennsylvania State Highway Department, Harrisburg, Pa. Sealed proposals will be received at the State Capitol until 10 a.m., April 3, 1923, when bids will be publicly opened and scheduled and contract awarded as soon thereafter as possible for the reconstruction of 40 miles of either Bituminous Surface on a Concrete foundation or One Course Reinforced Concrete Pavement, 30 miles of One Course Reinforced Concrete Pavement and 3 miles of Bituminous Macadam Pavement. Bidding blanks and specifications may be obtained free, and plans upon payment of $2.50 per set, upon application to State Highway Department, Harrisburg. No refund for plans returned. They also can be seen at office of State Highway Department, Harrisburg, 1001 Chestnut Street, Philadelphia, and 119 Federal Street, N. S., Pittsburgh, Pa.

P. D. WRIGHT,
State Highway Commissioner.

### OFFICIAL PROPOSALS

Bids: April 3

### Dam Construction

Newburgh, N. Y.

Sealed proposals for the construction of dams will be received by the City Manager, Newburgh, N. Y., at his office in the City Hall until 12 o'clock, noon, on Tuesday, the 3rd day of April, 1923, and at that time will be publicly opened and read.

The work comprises the construction of two dams, an easterly earth dam with a concrete core wall and spillway, and alternate bids are asked for the construction of the second dam adjacent to the easterly dam, two alternatives providing for an earth dam with concrete core wall and the other for a reinforced concrete facing wall with earth backing. The work lies about two miles southerly of Newburgh at the point where the southerly branch of Silver Stream crosses under the New York City Aqueduct. While the bids are divided as between the east and west dam, the work will be let to a single contractor, the character of construction for the west dam being decided by economical construction as represented by the bids.

Each bid must be accompanied by a certified check upon an acceptable National Bank or Trust Company, made payable to the order of the city of Newburgh, or by cash to the amount of $5,000.

Copies of the plans and specifications may be examined at the office of the City Engineer of Newburgh, N. Y., and copies of plans, specifications, contract and form of proposal may be obtained at that office or at the office of the Engineers, Fuller & Harding, 170 Broadway, N. Y., upon the deposit of $15, of which $10 will be refunded if the said plans and specifications are returned in good condition.

W. JOHNSTON McKAY,
City Manager.

---

Bids: April 5.

### Reinforced Concrete and Brick Pavement

Burlington, Vt.

Sealed proposals will be received by the City of Burlington on April 5th at five p.m. o'clock, standard time, at the City Hall, Burlington, Vermont, for the improvement of sections of Church, Pearl, Winooski Avenue Bank and Battery Streets. The work will consist of approximately 11,500 square yards of reinforced concrete, 1,400 square yards brick pavement and 4,900 lin.ft. concrete curb.

All bids must be upon blanks provided in the proposal furnished to bidders.

Bids must be accompanied by a certified check for three per cent (3%) of the amount of the bid. Plans and specifications will be on file at the City Clerk's office, City Hall, Burlington, Vermont, and at the office of the Engineer, H. Elting Breed, Room 600, 507 Fifth Avenue, New York City.

Copies of the plans and specifications may be obtained as above for three dollars ($3.00) per set.

No refund for blanks returned. Bidding blanks will be furnished free.

The right is reserved to reject any or all bids.

EDWARD CORLEY,
City Clerk.